



### RESULTS

or

### OBSERVATIONS OF THE FIXED STARS

MADE WITH THE

#### MERIDIAN CIRCLE

AT THE

### GOVERNMENT OBSERVATORY MADRAS

IN THE YEARS 1877, 1878, AND 1879

UNDER THE DIRECTION OF THE LATE

NORMAN ROBERT POGSON, C.I.E., F.R.A.S.

BY

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OFFICIATING GOVERNMENT ASTRONOMER AT MADRAS

# VOL VI.

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#### INTRODUCTION.

The present volume contains the results of the observations made with the Madras Meridian Circle in the years 1877, 1878, and 1879. The number of observations dealt with is 9,637, of which 2,744 were made in 1877, 3,416 in 1878, and 3,477 in 1879. The observers were P. Ragoonathachari (P. R), who ceased to observe in 1878 and died in 1880, Mootoosawmy Pillai (M), and P. Ragavachari (P).

The great increase in the number of observations over previous years was, unfortunately, accompanied by a decrease in the accuracy of the reductions, which has caused a large amount of extra labour in preparing the present volume for publication, and an unduly large list of errata for the years 1877 and 1878. The work was also greatly increased by the circumstance that a large proportion of the stars were observed in these years for the first time and consequently the constants, which had previously been calculated only for approximate places, had to be completely revised, the precessions being recalculated with 5-figure instead of 4-figure logarithms. As an additional check the constants were compared, when possible, with those given in other catalogues. As a consequence of this extra work the publication of the volume has been somewhat delayed.

In the first volume of the present series it is mentioned that the latitude of the Observatory is uncertain to the extent of nearly 1" and that it was proposed to make a fresh determination of the latitude from a discussion of all the observations of circumpolar stars. This cannot be done yet, but pending the final result of such a discussion it may be well to give the following results which indicate the probable amount of the correction that will have to be applied to the N. P. Ds. given in these volumes.

1. Determination made by Mr. G. P. Lennox Conyngham R.E. of the G. T. Survey of India, by Zenith Sector observations in January 1891

$$\overset{\circ}{13}\overset{\prime}{4}8\overset{''}{.77}~\pm~0.067$$

2. From approximate reduction of observation of three circumpolar stars between 1862 and 1877.

(a)	From	110	observati	ons of	Polaris	$13^{\circ}4^{\circ}$	8.64
(b)	•••	116	•••	•••	51 Cephei		8.68
(c)	•••	79	. •••	•••	R. P. L. 150		8.68

The assumed latitude is

and hence it is probable that the correction to be applied to the printed observations of N. P. D. is approximately

$$-0''.6$$

This determination has, of course, no claim to be considered a final one, and was, in fact, made simply for the purpose of comparing the result deducible from the circumpolar observations with the result obtained with the Zenith Sector. The large deviations of individual observations from the mean indicate, as might have been expected, that the correction for refraction is often very uncertain, especially in the observations made sub polo, and it seems doubtful whether a thoroughly satisfactory determination of latitude can be made by means of circumpolar stars at a place situated so near the equator as Madras is. The close agreement between the four determinations given is probably accidental and cannot be considered as a test of their accuracy.

INTRODUCTION.

Instrumental Corrections adopted in 1877.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	"	s	s	8	s	
Jan. 1	R	- 11.4	0.0	- 0.19	+ 0.09	+ 0.04	+ 0.43	
4 5	"	-10.3 $-12.3$	0.0	- 0·18 - 0·10	+ 0.03	+ 0.03 + 0.03	+ 0·40 + 0·39	35 and 115 R. P. L.
6	"	-12.3	0.0	- 0.03	+ 0.04	+ 0.04	\\\\ + 0.45	
8 10	",	- 10·0 - 10·4	0.0	- 0·10 - 0·09	十 0.07	+ 0.06	0.56	43 and 116 R. P. L.
12	"	- 10·5	0.0	0.00	+ 0·07   + 0·05	+ 0.03 + 0.03	+\0.53	
13	,,	- 10.6	0.0	+ 0.04	+ 0.03	+ 0.02	+0.52	33 and 115 R. P. L.
15 16	"	- 10·4 - 10·7	0.0	+ 0.03	十 0·04 十 0·08	+ 0.01 + 0.03	+ 0.35 + 0.35	35 and 111 R. P. L.
17	",	<b>— 10·0</b>	0.0	+ 0.04	+ 0.13	+ 0.03	Z + 0.41	
18 19	,,	- 10·1 - 11·6	0.0	+ 0·05 0·00	+ 0·11 + 0·11	+ 0.03 + 0.04	+ 0·47 + 0·47	40 and 115 R. P. L.
22	"	- 10.2	0.0	+ 0.01	+ 0.13	+ 0.05	+ 0.48	
23 24	"	- 10.8	0.0	+ 0.06	+ 0.13	+ 0.03	+ 0.48	
24 25	"	- 11·3 - 11·5	0.0	+ 0·04 - 0·06	+0.13	+ 0.02 + 0.04	+ 0.48 + 0.48	40 R. P. L. & & Urs. Min.
26	",	- 10.8	0.0	- 0.08	+ 0.13	+ 0.04	+ 0.46	
27 29	"	- 11·0 - 11·5	0.0	- 0.09 - 0.03	+ 0·10 + 0·10	+ 0·01 + 0·02	+ 0.45 + 0.48	43 R. P. L. & δ Urs. Min.
30	"	- 10.4	0.0	- 0.03	+ 0.13	+ 0.04	+ 0.50	
31	,,	- 10.9	0.0	+ 0.06	+ 0.11	+ 0.04	+ 0.21	49 and 143 R. P. L.
Feb. 2	M	- 11.7	+ 0.4	+ 0.07	+ 0.20	+ 0.08	+ 0.21	40 R. P. L. & € Urs. Min.
3	"	- 11.4	+ 0.4	0.00	+ 0.15	+ 0.05	+ 0.49	
5 6	"	- 10·5 - 11·1	+ 0·4 + 0·4	+ 0·06 + 0·13	+ 0·25 + 0·23	+ 0·04 + 0·03	+ 0·46   + 0·45	40 R. P. L. & e Urs. Min.
7	"	- 10.2	+ 0.4	+ 0.06	+ 0.24	0.00	+ 0.45	40 R. P. L. & e Urs. Min.
8	,,	- 11·1 - 10·4	+ 0·4 + 0·4	+ 0·02 + 0·05	+0.21 + 0.19	0.00	十 0·45 十 0·46	
10	"	- 10.9	+ 0.4	0.00	+ 0.23	0.00	+ 0.46	40 and 131 R. P. L.
12 13	,,	- 10.6	+04	+ 0.14	+ 0.22	+ 0.02	+ 0.46	
14	"	- 10·7 - 11·0	+ 0·4 + 0·4	- 0.09 + 0.03	+0.20 + 0.21	+ 0·02 + 0·01	+ 0.46 + 0.46	43 R. P. L. & e Urs. Min.
15	"	- 10.9	+ 0.4	0.00	+ 0.19	+0.02	+ 0.47	
16 17	"	- 11·2 - 10·9	+ 0·4 + 0·4	+ 0·03 + 0·02	+0.21 + 0.24	+ 0·02 + 0·03	+0.47 + 0.49	40 R. P. L. & & Urs. Min.
19	"	- 11.4	+ 0.4	+ 0.05	+ 0.24	+ 0.04	+ 0.52	
$\frac{20}{22}$	"	- 10·3 - 10·5	+ 0·4 + 0·4	+0.06	+ 0.22	十 0·02 十 0·04	十 0.24	49 and 143 R. P. L. 49 and 143 R. P. L.
23	"	- 11·4	+04	- 0.08	+0.21 +0.22	+ 0.05	$+0.52 \\ +0.50$	
24 26	"	- 10.8	+ 0.4	- 0·17	+ 0-24	+ 0.05	+ 0.49	51 Cephei and δ Urs. Min.
20 27	"	- 10·8 - 11·0	+ 0·4 + 0·4	- 0·10	+ 0·20 + 0·20	+ 0·02 + 0·03	+ 0·50 + 0·50	51 Cephei and 5 Urs. Min.
28	"	- 10.8	+ 0.4	+0.13	+ 0.21	+0.03	+ 0.50	or open and out, and
Mar. 15	R	- 9.1	+ 0·1	+ 0.05	+ 0.27	+ 0.04	+ 0.20	49 R. P. L. and 83 Cancri.
16	,,	- 9.7	+ 0.1	- 0.06	+ 0.56	+ 0.02	4 0.52	20. A. 2. MIG OF CARCEL.
17 19	"	- 9·9 - 9·8	+ 0·1 + 0·1	- 0.03	+ 0·28 + 0·26	+ 0.04 + 0.03	+0.54	49 and 149 P P T
20	"	- 9·5	+01	- 0.03	+ 0.28	+ 0.03	+ 0.57	49 and 143 R. P. L.
21	"	- 9.9	+ 0.1	- 0.04	+ 0.27	+ 0.03	十0.54	00 337075
22 23	"	- 10·2 - 10·0	+0.1 + 0.1	- 0.03 - 0.04	+ 0·26 + 0·28	+ 0·02 + 0·04	+ 0·52 + 0·49	60 and 150 R. P. L.
24	,,	- 10.1	+0.1	- 0.32	+ 0.26	+ 0.03	+ 0.46	70 and 151 R. P. L.
$\frac{26}{27}$	,,	- 10·2 - 9·4	+0.1 + 0.1	0.60 0.40	+ 0·30 + 0·28	+ 0.04 + 0.04	+ 0.52 + 0.55	
28	"	- 9.7	+0.1	-0.29	+ 0.29	+0.02	+ 0.58	60 and 143 R. P. L.

Instrumental Corrections adopted in 1877.

1	Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
4			,,	,,	s	s	s	8		
7	4	,,	- 9.7	0.0	- 0.50	+0.31	+ 0.03	+0.47	72 and 150 R. P. L.	+0.
138	10 11	"	- 8·4 - 8·6	0.0 0.0	- 0·15 - 0·10	+ 0.35 + 0.37 + 0.36	+ 0·03 + 0·01 + 0·03	+ 0.46 + 0.45 \+ 0.44	72 and 151 R. P. L.	+0:4
17	13 14	"	- 8·8 - 8·8	0.0	0·12 0·41	+0.38 +0.37	+0.02 +0.02	+ 0.41	70 and 150 R. P. L.	
20	18	"	- 8.0	0.0	- 0.32 - 0.32	+ 0·34 + 0·35	+0.01	+ 0.44 + 0.45	72 and 151 R. P. L.	0 - 4
26	20 21	"	- 8·7 - 8·4	0.0	- 0·31 - 0·29	+0.36	+ 0.03 + 0.03	+ 0.48	89 and 158 R. P. L.	5
30	26 27	",	- 8·2 - 8·0	0.0	- 0.07 - 0.12	+0.40 +0.39	+ 0·03 + 0·04	+ 046 + 045	89 and 150 R. P. L.	, 4
3	30	"	- 8.0	0.0	- 0.04				103 and 14 R. P. L.	.5
5	3	,,	- 6.7	- 0.2	- 0.13	+048	+0.05	+ 0.54	9 R. P. L. and Polaris.	
10	8	"	- 6.4	- 0.2	- 0.15	+ 0.41 + 0.47	+ 0·01 + 0·05	+ 0.51 + 0.52		
21	10 12	,,	- 6·1 - 5·8	- 0·2 - 0·2	- 0·17 - 0·14	+0.41	+0.03	+ 0.51 + 0.48	99 R. F. L. and Polaris.	
25	21 23	"	+ 1.1	- 0.2	+ 1.04 + 0.95	+ 0.25 + 0.25	+ 0·01 + 0·04	+0.31 +0.32		+0
29	25 26	"	+ 1·2 + 0·3	- 0·2 - 0·2	- 0·30 - 0·34	+ 0·30 + 0·29	+0.02	+0.35 + 0.37	99 R. P. L. and Polaris.	
une 1 R + 0.7 - 0.1 - 0.55 + 0.40 + 0.03 + 0.32 + 0.31 + 0.32 + 0.7 - 0.1 - 0.66 + 0.39 + 0.04 + 0.35 + 0.35 + 0.02 + 0.35 + 0.35 + 0.02 + 0.35 + 0.35 + 0.02 + 0.36 + 0.37 + 0.04 + 0.36 + 0.37 + 0.04 + 0.36 + 0.37 + 0.04 + 0.36 + 0.37 + 0.04 + 0.36 + 0.37 + 0.04 + 0.36 + 0.37 + 0.02 + 0.36 + 0.37 + 0.02 + 0.36 + 0.38 + 0.02 + 0.38 + 0.02 + 0.38 + 0.02 + 0.38 + 0.02 + 0.38 + 0.02 + 0.36 + 0.37 + 0.03 + 0.	29 30	,,	+ 0.8	- 0·2 - 0·2	- 0·38 - 0·28	+ 0·44 + 0·32	+ 0.05	+ 0.44		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		_								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 4	"	+ 0.3 + 0.1	$-0.1 \\ -0.1$	- 0·47 - 0·66	+ 0·37 + 0·39	+0.03 +0.04	+\0.32 +\0.34	'	+0;
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 7	"	- 0·2 - 0·3	- 0·1 - 0·1	- 0·56 - 0·57	+ 0·37 + 0·37	+ 0·04 + 0·02	+ 0.36		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 15	"	+ 1.0	- 0·1 - 0·1	- 0·55 - 0·59	+ 0·34 + 0·35	+ 0·02 + 0·03	+ 0·42 + 0·43	C Draconis and 40 R. P. L.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	18 20	,,	- 0·4 - 0·8	- 0·1 - 0·1	- 0.67 - 0.67	+0.36	+0.03	+0.43		
	22 23	,,	- 1·4 - 2·0	- 0·1 - 0·2						
25	27	,,	- 3.7	- 0.2	- 0.15	+ 0·50 + 0·49	+0.01 +0.01	+ 0·45 + 0·45	SUrs Min and St Carter	

May 21 Francis clock cleaned 23 18 weight per on clock shelf

may 15-18 Cyclone with 21.19 meter of ham

Instrumental Corrections adopted in 1877.

Date.	Obser-	Index.	Run	Clock	Inclina-	Colli-	Meridian.	Determining stars.
	ver.		in 5'.	Rate.	tion.	mation.	Dioritian.	Determining stars.
		"	"	s	s	s	s	
June 29 30	М "	- 3·3 - 3·5	- 0·2 - 0·2	- 0·10 - 0·10	+ 0·48 + 0·49	0.00 0.00	+ 0·45 + 0·45	
July 2	,,	- 4·3 - 4·5	- 0·1 - 0·1	- 0·07 - 0·13	+ 0·50 + 0·49	0.00 + 0.03	+ 0.44 + 0.44	
4 5	"	- 4·2 - 4·1	- 0·1 - 0·1	- 0.08 - 0.08	+ 0.48 + 0.47	- 0·01 - 0·03	+ 0·44 + 0·47	δ Urs. Min. and 51 Cephei
6 7	"	- 4·7 - 4·9	- 0·1 - 0·1	- 0.03 + 0.02	+ 0·52 + 0·48	+ 0.04 + 0.02	+ 0·50 + 0·53	
9 10 11	)) 2)	- 5·4 - 4·5 - 4·8	- 0·1 - 0·1 - 0·1	+ 0.02 0.00 - 0.10	+0.52 +0.48 +0.51	+ 0·04 + 0·01 + 0·02	+ 0.60 + 0.59 + 0.58	δ Urs. Min. & δ Ophiuchi.
13 14	" "	- 5·4 - 5·6	- 0·1 - 0·1	+ 0.01 + 0.02	+ 0.45 + 0.42	0.00 + 0.01	+ 0·56 + 0·55	
16 17 18	"	$ \begin{array}{rrr}  & 5.3 \\  & 5.4 \\  & 6.2 \end{array} $	- 0·1 - 0·1	- 0.06 - 0.10	+ 0·47 + 0·43	+ 0.03	+ 0.53 + 0.52	B 77 - 361
19 20	)) ))	- 5·5 - 4·9	- 0·1 - 0·1 - 0·1	+ 0.01 + 0.01	+ 0·40 + 0·37 + 0·41	- 0.03 - 0.01	+ 0·51 + 0·50 + 0·50	δ Urs. Min. and Antares.
21 23	"	- 5·3 - 4·9	- 0·1 - 0·1	+ 0.08 + 0.08	+ 0·42 + 0·45	+ 0.01 - 0.01	+ 0·49 + 0·48	
30 31	"	- 5·2 - 5·0	- 0·1 - 0·1	+ 0·20 + 0·20	+ 0.40	+ 0.00 0.00	+0.44	
Aug. 3	R ,,	- 4·8 - 4·9	0.0	+ 0·22 + 0·23	+ 0·37 + 0·34	$^{+0.02}_{+0.02}$	+ 0.43 + 0.43	
7 8 9	"	- 4·5 - 5·2 - 4·9	0.0 0.0 0.0	+ 0·28 + 0·19 + 0·25	十 0·40 十 0·35 十 0·36	+ 0.02 + 0.01 + 0.02	+ 0·40 + 0·42 + 0·44	143 R. P. L. and e Scorpii.
10 14	М R	- 5·7 - 5·0	0.0 0.0	+ 0.39	$+0.12 \\ +0.37$	+ 0.05 + 0.02	+ 0'45 + 0.53	
15 16 17	"	- 5·4 - 4·4 - 5·7	0.0 0.0 0.0	+ 0·07 + 0·12 + 0·19	+ 0·36 + 0·37	+ 0.03 + 0.03	+ 0.55 <sub>5</sub> + 0.57	η Cygni and 40 R. P. L.
20 21	"	- 5·5 - 5·5	0.0	+ 0·20 + 0·17	+ 0.38 + 0.37 + 0.38	$^{+0.03}_{+0.02}$	+ 0·57 + 0·57 + 0·57	
22 23	"	- 6·1 - 5·5	0.0	+ 0·11 + 0·20	+0.36	+0.03	+0.57 + 0.57	
24 25 27	"	- 4·9 - 5·0 - 5·7	0.0 0.0 0.0	$\begin{array}{c c} + 0.26 \\ + 0.22 \\ + 0.22 \end{array}$	+ 0·35 + 0·38 + 0·40	$\begin{array}{c} + 0.01 \\ + 0.02 \\ + 0.02 \end{array}$	+ 0·57 + 0·57 + 0·57	131 and 43 R. P. L.
Sep. 1	"	- 6.0	0.0	+ 0.18	+ 0.38	+ 0.03	+ 0.66	201 464 20 10.1.1.
3 5 6	M ,,	- 5·1 - 5·7 - 4·8	- 0·1 - 0·1	+ 0·23 + 0·03 + 0·09	+ 0·38 + 0·37 + 0·38	+ 0.04 + 0.01 + 0.04	+ 0.69 + 0.69 + 0.69	150 R. P. L. and e Pogasi.
7 8	"	- 5·0 - 3·9	- 0·1 - 0·1	+ 0·17 + 0·13	+ 0·36 + 0·38	+ 0·02 + 0·02	+ 0.65 + 0.61	δ Urs. Min. and 51 Cephci.
10 11 12	"	- 4·2 - 4·0 - 3·4	- 0·1 - 0·1	+ 0·29 + 0·30 + 0·34	+ 0·37 + 0·36 + 0·40	+ 0·04 + 0·02 + 0·05	+0.72  +0.72  +0.72  +0.72	150 and 72 R. P. L.
13 14	"	- 4·1 - 4·0	- 0·1 - 0·1	+ 0·22 + 0·14	+ 0·35 + 0·40	+ 0·02 + 0·06	+ 0·73 + 0·73	
15 17 18	"	- 4·1 - 4·9 - 4·4	- 0·1 - 0·1 - 0·1	+ 0·24 + 0·27 + 0·26	+ 0·37 + 0·37 + 0·34	+ 0.03	+ 0.73 + 0.74	150 and 72 R. P. L.
19 20	"	- 4·8 - 4·9	- 0·1 - 0·1	+ 0.14 + 0.18 + 0.28	+ 0.35 + 0.35 + 0.35	+ 0·01 + 0·02 0·00	+ 0.74 + 0.73 + 0.73	
2]	,,	- 4.6	- 0.1	+ 0.33	+ 0.34	+ 0.01	+ 0.72	

+0.51 ·51 ·51 ·51 ·51 ·51 ·51 ·52 ·52 ·53 ·54

 $Instrumental\ \ Corrections\ \ adopted\ \ in\ \ 1877.$ 

								I	ĺ
Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
		"	• "	s	8	s	s		
Sep. 22 24 25 27 28	M ""	- 4.7 - 4.8 - 3.7 - 4.8 - 4.1	- 0·1 - 0·1 - 0·1 - 0·1	+0.16 +0.08 +0.07 +0.03 -0.04	+ 0·34 + 0·36 + 0·35 + 0·32 + 0·36	$     \begin{array}{r}       0.00 \\       + 0.02 \\       + 0.03 \\       - 0.01 \\       + 0.02     \end{array} $	+ 0·72 + 0·71 + 0·71 + 0·70 + 0·71	150 and 72 R. P. L.	
Oct. 1 2 3 4	R "	- 4·5 - 4·0 - 4·5 - 4·5	0.0 0.0 0.0	- 0.05 + 0.02 + 0.03 + 0.06	+ 0.35 + 0.36 + 0.34 + 0.37	+ 0.04 + 0.03 + 0.02 + 0.04	+ 0.74 + 0.73 + 0.73 + 0.72	150 and 72 R. P. L. 150 and 70 R. P. L.	
5 6 8	"	- 4·2 - 5·3 - 4·5	0.0 0.0	+ 0·11 + 0·08 + 0·09	+0.34  +0.35  +0.34	+0.02  +0.02  +0.02	+ 0.69 + 0.66 + 0.60	151 and 72 R. P. L.	+0:65
9 10 13 15		- 4·4 - 5·0 - 3·9 - 4·2	0.0 0.0 0.0 0.0	+0.10 $+0.08$ $-0.11$ $-0.20$	$     \begin{array}{r}       + 0.37 \\       + 0.35 \\       + 0.34 \\       + 0.34     \end{array} $	$     \begin{array}{r}       + 0.03 \\       + 0.02 \\       \hline       0.00 \\       - 0.01     \end{array} $	+ 0.58 + 0.55 + 0.75 + 0.64	143 and 60 R. P. L. 151 and 70 R. P. L.	+000
16 17 18	"	- 4·7 - 5·6 - 5·0	0.0	- 0·21 - 0·07 + 0·10	+0.35 +0.38 +0.34	- 0.01 - 0.00 + 0.01	+ 0.59 + 0.60 + 0.60	143 and 60 R. P. L.	68 68 69
19 20 22 24	"	- 4·2 - 5·2 - 4·3 - 5·1	0.0 0.0 0.0	+0·14 +0·05 -0·11 -0·21	$     \begin{array}{r}       + 0.37 \\       + 0.39 \\       + 0.41 \\       + 0.39     \end{array} $	- 0·01 0·00 + 0·03	+/0.61 + 0.68 + 0.66 + 0.71	143 and 60 R. P. L.	.70
25 27 31	"	- 54 - 44 - 21	0.0	- 0·22 - 0·13 + 0·08	+ 0.36 + 0.38 + 0.38	+ 0.01 0.00 0.00	+ 0.73 + 0.78 + 0.87	151 and 103 R. P. L.	+ 0.71 .72 .74
Nov. 1 2 3 6	"	- 0·1 + 0·8 + 1·7 + 0·5	0.0 0.0 0.0 0.0	+ 0.04 0.00 - 0.01 - 0.07	+0·34 +0·32 +0·30 +0·32	+0.01 +0.02 +0.01 0.00 0.00	+ 0.87 + 0.87 + 0.87 + 0.91 + 0.93	14 and 99 R. P. L.	171 168 163 165
7 10 12 16 17	" M	+ 1·1 + 2·6 + 3·2 + 6·6 + 6·1	0.0 0.0 + 0.3 + 0.3	$ \begin{array}{c c} -0.19 \\ -0.01 \\ +0.02 \\ +0.03 \\ +0.02 \end{array} $	$ \begin{array}{c c} + 0.31 \\ + 0.31 \\ + 0.33 \\ + 0.22 \\ + 0.23 \end{array} $	0.00 0.00 - 0.02 - 0.01	+ 0.97 + 1.00 + 0.71 + 0.69	14 and 72 R. P. L. 150 R. P. L. & γ Piscium.	ילי ל'. 1-10 ל
19 20 21	"	+ 5·1 + 4·5 + 4·6	+ 0.3 + 0.3 + 0.3	- 0·10 - 0·10 - 0·04	+0.26 +0.26 +0.28	0.00 - 0.02 - 0.03	+\0.64 + 0.66 + 0.67	35 R. P. L. and β Ceti.	'7. '7. '6
22 23 24 26	"	+ 2·8   + 2·9	+ 0.3 + 0.3 + 0.3 + 0.3	- 0.02 - 0.05 - 0.05 - 0.10	+0.22 +0.26 +0.25 +0.29	- 0.05 - 0.02 - 0.05 - 0.04	+0.69 +0.68 +0.67 +0.69	2 Urs. Min. & 116 R. P. L. 2 Urs. Min. & θ¹ Ceti.	+0.6
27 28 29	"	+ 2·0 + 2·3 + 1·5	+ 0·3 + 0·3 + 0·3	- 0·15 - 0·05 - 0·21	+ 0·32 + 0·30 + 0·31	- 0.04 - 0.03 - 0.04	+ 0.76 + 0.72 + 0.73	33 and 114 R. P. L. 2 Urs. Min. and 89 R. P. L.	
30 Dec. 3	R "	+ 1·3 + 1·9	0.0	- 0·39 - 0·19	+ 0.30	0.00	+ 0.74 + 0.77 + 0.77	26 and 89 R. P. L.	' ਅਤੇ ' ਨੇਮ ' ਨੇਮ
4 6 10 11	",	$\begin{vmatrix} + & 2 \cdot 3 \\ + & 2 \cdot 7 \\ + & 3 \cdot 2 \\ + & 1 \cdot 9 \end{vmatrix}$	0.0	- 0·20 - 0·16 - 0·16 - 0·10	+ 0·29 + 0·29 + 0·29 + 0·30	0.00 0.00 + 0.01	+ 0.83 + 0.92 + 0.87	14 and 98 R. P. L.	154 155 17
12 13 14	"	$\begin{array}{c c} + 2.9 \\ + 2.1 \\ + 1.4 \end{array}$	0.0 0.0 0.0	0.00 + 0.01 - 0.14	+ 0·30 + 0·32 + 0·32	0.00 0.00 0.00	# 0.82 # 0.78 # 0.73	2 Urs. Min. and 89 R. P. L	
15 17		+ 1.4 + 1.6	0.0	- 0·22 - 0·19	+ 0.31	+ 0.00	+ 0.77 + 0.85		۶۰ ا

INTRODUCTION.

Instrumental Corrections adopted in 1877.

Date.	Observer.	Index.	Run in 5'	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
Dec. 18 19 21 27 29	R ,,, M ,,,	" + 1.7 + 1.1 + 0.3 - 0.8 - 1.0	" 0.0 0.0 + 0.2 + 0.2 + 0.2	s - 0·16 - 0·08 + 0·01 - 0·19 - 0·18	\$ + 0.31 + 0.34 + 0.34 + 0.34 + 0.31	8 0.00 0.00 - 0.04 - 0.01 - 0.05	+ 0.89° + 0.93° + 0.62° + 0.66° + 0.76°	33 and 103 R. P. L. Polaris and 111 R. P. L. Polaris and 116 R. P. L. 40 and 116 R. P. L.	+0.65

INTRODUCTION.

 $Instrumental\ Corrections\ adopted\ in\ 1878.$ 

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		"	,,	8	8	s	s	
Jan. 4	м	- 3·9 - 4·7	0.0	- 0·24 - 0·18	+ 0·32 + 0·39	- 0.00	+0.76 +0.76	33 and 114 R. P. L.
7 8	"	- 4·9 - 5·1	0.0 0.0	- 0·22 - 0·22	+ 0·35 + 0·37	- 0.02 - 0.02	+ 0.75 + 0.74	33 and 114 R. P. L.
9	»	- 6·0 - 6·0 - 5·6	0.0 0.0 0.0	+ 0.04 + 0.06 - 0.08	+ 0·39 + 0·33 + 0·34	+0.03 -0.04 -0.02	+0.72 + 0.70 + 0.71	33 and 114 R. P. L.
11 14 15	)) ))	- 5.6 - 6.5 - 6.4	0.0	- 0·17 - 0·25	+ 0.33	- 0.01 - 0.01	+0.73 +0.72	33 and 114 R. P. L.
16 17	)) ))	- 6·1 - 6·6	0·0 0·0	- 0·15 - 0·09	+ 0·32 + 0·34	- 0.01 - 0.01	$     \begin{array}{r}       + 0.72 \\       + 0.71 \\       + 0.71   \end{array} $	34 and 116 R. P. L.
18 19 21	"	- 7·2 - 6·7 - 7·2	0.0 0.0	- 0·12 - 0·12 - 0·14	+0.33  +0.29  +0.32	- 0·02 - 0·03	+0.71  +0.71  +0.72	54 and 110 m. r. D.
22 23	"	- 7·0 - 6·5	0·0 0·0	- 0.08 - 0.08	+ 0·32 + 0·33	- 0.02 - 0.03	+ 0.72 + 0.73	34 and 116 R. P. L.
24 25 26	"	- 7·1 - 7·5 - 6·6	0.0 0.0 0.0	- 0·11 - 0·14 - 0·12	+ 0·32 + 0·33 + 0·33	- 0.02 - 0.03 - 0.04	+ 0.73 + 0.74 + 0.74	34 and 116 R. P. L.
28 29	"	- 7·4 - 7·6	0-0	- 0·11 - 0·13	+ 0·32 + 0·32	- 0.04 - 0.05	+ 0.69 + 0.67	40 and 116 R. P. L.
30 31	"	- 8·0 - 7·8	0.0	- 0·11 - 0·02	+ 0.39	- 0.04 - 0.03	+ 0.70 + 0.74	40 and 116 R. P. L.
Feb. 1	R.	- 7·5 - 8·7	0.0	- 0 10 - 0 15	+0·30 +0·32	- 0.01 - 0.01	+ 0.72 + 0.70	
4 5	"	- 8·0 - 8·5 - 8·7	0.0 0.0 0.0	-0.07 $-0.12$ $-0.10$	+ 0.35 + 0.36 + 0.34	- 0.01 - 0.01	+0.66 + 0.65 + 0.64	43 R. P. L. and δ Urs. Mi
6 7 8	33 33	- 83 - 81	0.0	- 0.05 - 0.06	+ 0·34 + 0·36	- 0·01 - 0·01	+ 0.64 + 0.63	
9 11	"	- 8·4	0.0	- 0.07 - 0.09	+ 0.35 + 0.35 + 0.36	- 0·01	+0.62 $+0.64$ $+0.65$	40 R. P. L. and ∈ Urs. M
12 13 14	"	- 8·3 - 7·9 - 8·7	0.0	$\begin{array}{c c} -0.07 \\ +0.02 \\ +0.01 \end{array}$	+ 0.36 + 0.37 + 0.37	+ 0.01	+ 0.68	43 R. P. L. and eUrs. M
15 16	"	- 8·7 - 8·5	0.0	- 0.06 - 0.02	+0.35	+0.01	+0.69	40 R. P. L. and δ Urs. M
18 19 20	"	- 7·5 - 8·4 - 9·2	0.0	+0.11 +0.05 +0.01	+ 0.36 + 0.35 + 0.37	0.00 0.00 + 0.01	+ 0.68 + 0.67 + 0.66	40 R. P. L. and 5 Urs. M
21 22	"	- 8·2 - 7·8	0.0	+0·10 +0·08	+ 0·34 + 0·35	0·00 + 0·01	+ 0.68 + 0.69	49 D D I & 94 II M
25 26 27	23	- 7·6 - 8·4 - 8·3	0.0	- 0·12 - 0·08 0·00	+0.38 +0.38	0.00	$\begin{array}{ c c c } +0.73 \\ +0.72 \\ +0.70 \end{array}$	43 R. P. L. & 24 Urs. M
28	"	- 8.4	0.0	+0.03	+ 0.37	0.00	+ 0.68	
Mar. 1 2 4	,, M	- 8·4 - 8·6 - 7·9	0.0	- 0.01 - 0.01	+ 0·37 + 0·37 + 0·36	+ 0·00 + 0·01 - 0·02	+ 0.66 + 0.65 + 0.70	49 R. P. L. & & Urs. Mi
5 6	"	- 8·0 - 8·1	0.0	- 0.01 + 0.03	+ 0.36	- 0.01 - 0.04	+ 0·72 + 0·70	40 R. P. L. & a Columb
7 8 9	"	- 7·2 - 8·0 - 8·0	0.0	0.00	+ 0.41 + 0.40 + 0.38	- 0.01 - 0.01 - 0.01	+ 0.68 + 0.66 + 0.64	51 Cephei & 8 Urs. Min
11 12	27 27 23	- 7·6 - 8·5	0.0	+ 0.07 + 0.04	+ 0.44	+ 0·03 - 0·02	+ 0.63 + 0.63	51 Cephei & 8 Urs. Min
13	"	- 8.2	0.0	- 0.02	+ 0.43	0.00	+ 0.64	

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Instrumental Corrections adopted in 1878.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars
Mar. 14 15 16 18 19 20 21 22 23 25 26 27 28 29 30	M "" "" "" "" "" ""	" - 7·8 - 7·9 - 7·9 - 8·0 - 7·9 - 8·1 - 7·8 - 7·6 - 7·5 - 7·4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	\$ + 0.09 + 0.06 - 0.06 - 0.09 - 0.03 - 0.01 - 0.07 + 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 0.09 - 0.01 - 0.07	\$ + 0·40 + 0·35 + 0·40 + 0·39 + 0·43 + 0·41 + 0·44 + 0·44 + 0·45 + 0·47 + 0·40 + 0·46 + 0·46 + 0·46 + 0·46 + 0·46 + 0·46	\$ + 0.01 - 0.05 - 0.04 - 0.00 - 0.01 - 0.03 - 0.02 - 0.01 - 0.05 + 0.01 - 0.03 - 0.02 - 0.01 - 0.03 - 0.04	\$ +0.65 +0.66 +0.66 +0.63 +0.63 +0.62 +0.60 +0.59 +0.58 +0.58 +0.58 +0.60	60 and 143 R. P. L. 70 and 150 R. P. L.
Apl. 1 2 3 4 5 6 8 9 10 11 12 15 17 22 24 25 26 27 29 30	" R " " " " " " " " " " " " " " " " " "	- 6.6 - 6.8 - 7.3 - 7.7 - 7.2 - 7.0 - 7.0 - 7.9 - 6.9 - 6.2 - 6.2 - 6.8 - 6.2 - 6.8 - 6.2 - 6.8 - 6.2	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 0·12 - 0·18 - 0·19 - 0·18 - 0·24 - 0·23 - 0·07 - 0·13 - 0·14 - 0·13 - 0·04 - 0·13 - 0·04 - 0·13 - 0·04 - 0·13 - 0·04 - 0·03 - 0·08 - 0·05	+ 0.44 + 0.44 + 0.44 + 0.44 + 0.44 + 0.44 + 0.47 +	- 0·01 - 0·02 - 0·01 0·00 - 0·01 0·00 0·00 0·00 + 0·01 - 0·01 - 0·01 - 0·01 - 0·00 0·00 0·00 0·00 0·00 0·00 0·00 0·	+ 0.664 + 0.664 + 0.663 + 0.663 + 0.666666666666666666666666666666666666	70 and 150 R. P. L.
May 1 4 6 8 10 11 15 16 17 20 21 22 23 24 25 27 28 29 30 31	" " " " " " " " " " " " " " " " " " "	- 6.8 - 6.3 - 6.7 - 6.1 - 6.1 - 5.6 - 5.6 - 5.8 - 4.8 - 4.7 - 4.6 - 4.8	00 00 00 00 00 00 00 00 00 00	- 0.05 - 0.06 - 0.06 - 0.09 - 0.12 - 0.15 + 0.37 + 0.14 - 0.22 - 0.07 - 0.11 - 0.21 - 0.27 - 0.13 - 0.03 - 0.24 - 0.14 - 0.13 - 0.09	+ 0·48 + 0·50 + 0·49 + 0·40 + 0·50 + 0·50 + 0·53 + 0·56 + 0·56 + 0·56 + 0·57 + 0·58 + 0·56 + 0·55 + 0·56 + 0·55 + 0·56 + 0·55 + 0·56 +	- 0·01 + 0·01 - 0·01 - 0·01 - 0·01 - 0·01 - 0·03 - 0·01 - 0·01 - 0·01 - 0·02 - 0·01 + 0·02 - 0·03	+ 0.66 + 0.66 + 0.66 + 0.66 + 0.66 + 0.65 + 0.63 + 0.61 + 0.56 + 0.56 + 0.56 + 0.57 + 0.57 + 0.53 + 0.51 + 0.49 + 0.48	98 and 150 R. P. L. 98 and 158 R. P. L. 89 and 158 R. P. L. 89 R. P. L. and Polaris.
June 1	,,	- 4.9	- 0.1	- 0.17	+ 0.62	+ 0.03	+ 0.20	

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#### Instrumental Corrections adopted in 1878.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
June 3 4 5 6 7 8 10 11 12 13 15 17 18 19 20 21 22 24 25 26 27	M	" 4.5.2 6.4 4.9 7 8.4 4.9 9 4.5 0 4.	" - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·1 - 0·0 0·0 0·0 0·0 0·0 0·0 0·0 0·0	\$ -0.15 -0.19 -0.21 -0.26 -0.26 -0.17 -0.14 -0.12 -0.13 -0.23 -0.26 -0.23 -0.16 -0.00 +0.01 -0.10 -0.12 -0.10	s + 0·59 + 0·62 + 0·60 + 0·60 + 0·62 + 0·62 + 0·62 + 0·62 + 0·59 + 0·59 + 0·59 + 0·59 + 0·55 + 0·55 + 0·55 + 0·55 + 0·55 + 0·54 + 0·54	\$ 0.00 -0.01 +0.01 -0.03 -0.01 -0.02 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01	\$ +0.55 +0.58 +0.60 +0.63 +0.65 +0.65 +0.67 +0.67 +0.62 +0.62 +0.62 +0.62 +0.62 +0.61 +0.61 +0.61	Polaris and 12 Can. Ven.  Polaris and 5 Ophiuchi.  99 R. P. L. and Polaris.
July 2 4 6 8 9 10 11 12 13 15 16 23 24 27	33 33 33 33 33 33 33 33 33 33 33 33 33	- 4 3 9 1 6 4 4 1 3 7 6 1 5 3 0 2 1 6 3 5 3 0 2 1 6 5 3 0 2 1 6 5 5 3 0 2 1 6 5 5 3 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 0 2 1 6 5 5 5 5 5 0 2 1 6 5 5 5 5 5 5 0 2 1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	+ 0.5 + 0.5	- 0·01 - 0·09 - 0·23 - 0·18 - 0·00 - 0·15 - 0·05 - 0·04 - 0·21 - 0·38 - 0·48 - 0·54 - 0·30 - 0·30 - 0·33	+ 0.54 + 0.45 + 0.42 + 0.40 + 0.30 + 0.37 + 0.43 + 0.43 + 0.43 + 0.45 + 0.32 + 0.32 + 0.38 + 0.42	0.00 0.00 0.00 0.01 -0.01 +0.02 -1.78 -0.01 0.00 -0.03 0.00 +0.03 -0.02 +0.02 +0.01 +0.01 0.00	+ 0·61 + 0·60 + 0·60 + 0·60 + 0·61 + 0·63 + 0·63 + 0·65 + 0·68 + 0·68 + 0·66 + 0·66 + 0·66 + 0·66 + 0·66	e Urs. Min. and Polaris. 115 and 34 R. P. L. 111 and 35 R. P. L.
Aug. 3 5 6 9 12 13 14 15 16 17 19 20 21 22 23 24 26 28 29 30	M	- 53 - 34 - 34 - 36 - 36 - 20 - 16 - 20 - + 01 + 03 + + 07 - + 07 - 42 - 20 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4	0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0	- 0'31 - 0'29 - 0'29 - 0'32 - 0'41 - 0'37 - 0'28 - 0'22 - 0'23 - 0'21 - 0'25 - 0'27 - 0'29 - 0'29 - 0'20 - 0'20	+ 0·40 + 0·42 + 0·43 + 0·42 + 0·39 + 0·35 + 0·35 + 0·35 + 0·34 + 0·34 + 0·37 + 0·37 + 0·35 + 0·34 + 0·37 + 0·35 + 0·35 + 0·35 + 0·35 + 0·36 + 0·36 + 0·36 + 0·36 + 0·35 + 0·36 + 0·36 + 0·35 + 0·36 +	+ 0·01 - 0·01 0·00 + 0·03 + 0·04 0·00 + 0·01 + 0·02 + 0·01 0·00 + 0·01 + 0·	+ 0.64 + 0.63 + 0.63 + 0.62 + 0.61 + 0.60 + 0.59 + 0.56 + 0.56 + 0.55 +	131 and 43 R. P. L.  Turs. Min. and 40 R. P. L.  143 and 49 R. P. L.

#### $Instrumental\ Corrections\ adopted\ in\ 1878.$

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
Aug. 31 Sep. 2 3 4 10 12 16 17 18 19 20 21 23 24 25 26 27 28 30	R """ "" "" "" "" "" "" "" "" "" "" "" "	" - 0·1 + 0·8 + 0·1 + 1·6 + 3·1 + 3·9 + 3·7 + 2·0 + 1·9 + 1·3 + 1·8 + 0·2 + 1·2 - 0·2	" 0.0  - 0.1	\$ - 0.24 - 0.32 - 0.32 - 0.32 - 0.38 - 0.38 - 0.46 - 0.37 - 0.34 - 0.42 - 0.50 - 0.52 - 0.42 - 0.32 - 0.32 - 0.32 - 0.32 - 0.23 - 0.19 - 0.24	\$ + 0·36 + 0·37 + 0·36 + 0·36 + 0·31 + 0·27 + 0·30 + 0·32 + 0·29 + 0·31 + 0·28 + 0·32 + 0·32 + 0·32 + 0·32 + 0·32 + 0·33 + 0·34 + 0·33 + 0·32 + 0·32 + 0·32 + 0·32 + 0·32 + 0·32 + 0·32 + 0·32	\$ 0.00 + 0.01 0.00 + 0.01 + 0.02 + 0.01 + 0.02 + 0.01 - 0.00 0.00 0.00 0.00 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01	\$ + 0.53 + 0.52 + 0.52 + 0.52 + 0.55 + 0.56 + 0.58 + 0.58 + 0.58 + 0.60 + 0.61 + 0.61 + 0.61 + 0.61 + 0.62 + 0.62 + 0.63	143 and 49 R. P. L.  150 and 70 R. P. I.
Oct. 1 2 3 4 5 8 11 12 15 17 18 19 21 22 23 24 25 26 29	)) )) )) )) )) )) )) )) )) )) )) )) ))	- 0.4 + 0.8 + 0.0 0.8 3.2 2.9 3.2 3.5 1.5 3.1 1.5 3.7 1.5 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	+ 0.4 + 0.4	- 0.25 - 0.28 - 0.38 - 0.26 - 0.11 - 0.33 - 0.36 - 0.39 - 0.44 - 0.41 - 0.40 - 0.42 - 0.48 - 0.42 - 0.43 - 0.40 - 0.42 - 0.43 - 0.40 - 0.42 - 0.43 - 0.44 - 0.40 - 0.42 - 0.43 - 0.46 - 0.42 - 0.46 - 0.46 - 0.46 - 0.46 - 0.47 - 0.47 - 0.48 - 0.49 - 0.49 - 0.49 - 0.49 - 0.40 - 0.40	+ 0·39 + 0·37 + 0·36 + 0·40 + 0·34 + 0·32 + 0·37 + 0·40 + 0·39 + 0·38 + 0·38 + 0·43 + 0·44 + 0·44 + 0·32	+ 0·01 - 0·01 + 0·02 + 0·05 + 0·04 + 0·04 + 0·03 + 0·01 + 0·03 0·00 + 0·02 - 0·01 + 0·02 - 0·01 + 0·02 - 0·01 + 0·02 - 0·01 - 0·02 - 0·02 - 0·04 - 0·02 - 0·04 - 0·02 - 0·04 - 0·04 - 0·05 - 0·05	+ 0·64 + 0·65 + 0·66 + 0·67 + 0·68 + 0·71 + 0·68 + 0·64 + 0·63 + 0·64 + 0·64 + 0·64 + 0·64 + 0·63 + 0·63 + 0·63 + 0·63 + 0·66 + 0 + 0 + 0 + 0 + 0 + 0	150 and 72 R. P. L.  150 and 79 R. P. L.  150 R. P. L. & Fomalhaut  150 and 72 R. P. L.
Nov. 2 5 6 8 9 11 12 14 15 16 21 22 25 26 27 28	)) M	- 1·3 - 1·4 - 2·5 - 1·4 - 2·7 - 2·5 - 3·4 - 3·9 - 0·6 - 1·1 - 0·8 - 1·2 - 1·1 - 1·8 - 1·9 - 1·4	+ 0·4 + 0·1 + 0·1	- 0·41 - 0·29 - 0·36 - 0·32 - 0·30 - 0·40 - 0·61 - 0·65 - 0·66 - 0·74 - 0·67 - 0·66 - 0·50 - 0·68 - 0·80 - 0·78	+ 0·33 + 0·39 + 0·38 + 0·40 + 0·39 + 0·40 + 0·36 + 0·42 + 0·23 + 0·11 + 0·04 + 0·06 + 0·05 + 0·07 + 0·07	- 0·02 + 0·02 + 0·01 + 0·01 - 0·02 - 0·00 - 0·04 + 0·01 - 0·01 - 0·01 - 0·01 - 0·01 - 0·01 - 0·01 - 0·00 - 0·00	+ 0·57 + 0·61 + 0·62 + 0·52 + 0·47 + 0·53 + 0·56 + 0·55 + 0·55 + 0·59 + 0·47 + 0·47 + 0·48 + 0·50	150 and 79 R. P. L. 150 and 79 R. P. L. 150 and 93 R. P. L. 150 and 89 R. P. L. 150 and 89 R. P. L. 150 and 89 R. P. L. Polaris and 99 R. P. L. Polaris and 99 R. P. L.

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INTRODUCTION.

#### Instrumental Corrections adopted in 1878.

Date,	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion,	Meridian.	Determining Stars.
Dec. 2 6 7 9 11 12 13 14 16 18 20 21 28 31	3) 3) 3) 3)	" - 0.6 + 0.8 - 0.6 + 0.1 - 0.9 - 0.1 - 0.3 - 0.3 - 0.1 - 1.5 + 0.2 - 1.5 - 0.8	" +0·1 +0·1 +0·1 +0·1 +0·1 +0·1 +0·1 +0·1	\$ -0.70 -0.55 -0.57 -0.64 -0.57 -0.62 -0.62 -0.62 -0.62 -0.62 -0.64 -0.84 -0.84 -0.40	\$ + 0.08 + 0.07 + 0.09 + 0.09 + 0.08 + 0.09 + 0.08 - 0.05 - 0.05 - 0.05 - 0.15	\$ 0.00 0.00 - 0.01 0.00 + 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00	\$ + 0.54 + 0.60 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.61 + 0.65	33 and 114 R. P. L. 33 and 114 R. P. L. 35 and 115 R. P. L.

Nov. 15.—Cleaned and oiled the pivots and adjusted the levelling screws. Cleaned and adjusted the microscopes.

Dec. 31.—The clock was put back one minute at 5h. 0m. S. T. and the weight on the pendulum shelf was reduced from 35 to 25 grains.

INTRODUCTION.

Instrumental Corrections adopted in 1879.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
		u	"	s	s	8	s	
Jan. 4 7 8 9	M ,,	- 3·1 - 3·0 - 4·0 - 2·3	+ 0·2 + 0·2 + 0·2 + 0·2	+0·15 +0·36 +0·31 +0·25	- 0.07 - 0.02 - 0.06 - 0.06	0·00 + 0·04 + 0·02 + 0·02	+ 0.58 + 0.63 + 0.62 + 0.62	Polaris and 111 R. P. L.
10 11 13 14	", ", R	- 4·3 - 3·0 - 3·0 - 2·8	$     \begin{array}{r}       + 0.2 \\       + 0.2 \\       + 0.2 \\       + 0.2     \end{array} $	+ 0·33 + 0·33 + 0·07 + 0·23	- 0.08 - 0.09 - 0.11 - 0.07	+ 0.01 - 0.03 - 0.00 0.00	+ 0·60 + 0·60 + 0·58 + 0·57	34 and 115 R. P. L.
15 16 17 18 20	M ''	- 3·3 - 3·6 - 2·9 - 3·1	+ 0·2 + 0·2 + 0·2 + 0·2	+0.35 +0.24 +0.37 +0.40	- 0.05 - 0.07 - 0.08 - 0.12	- 0.03 0.00 + 0.03	+ 0.56 + 0.55 + 0.54 + 0.54	43 R. P. L. & e Urs. Min
23 24 25	"	$ \begin{array}{rrr}  & -3.0 \\  & -2.9 \\  & -1.7 \\  & -1.7 \end{array} $	+ 0·2 + 0·2 + 0·2 + 0·2	+0.23 +0.15 +0.28	- 0·12 - 0·10 - 0·06	- 0.04 - 0.02 + 0.02	+ 0·53 + 0·51 + 0·52	33 R. P. L. & e Urs. Min 40 R. P. L. & e Urs. Min
27 28 29	"	- 3·1 - 3·8 - 3·2	+ 0.2 + 0.2 + 0.2 + 0.2	+0.41 +0.30 +0.27	- 0.04 - 0.11 - 0.08 - 0.10	+ 0·01 - 0·04 + 0·01	+ 0.54 + 0.53 + 0.52	40 R. P. L. & e Urs. Mir 40 R. P. L. & e Urs. Mir
30 31	"	- 3·7 - 3·1	+ 0·2 + 0·2 + 0·2	+0.33 +0.41 +0.31	- 0·11 - 0·14	- 0.02 - 0.05	+ 0·51 + 0·50 + 0·51	40 R. P. L. & e Urs. Mir
Feb. 1 3 4 5	R ,,	- 4.6 - 1.9 - 2.6	0.0 0.0 0.0	+0.2.1 +0.34 +0.29	- 0.15 - 0.16 - 0.15	- 0.02 - 0.02 - 0.02	+ 0·52 + 0·54 + 0·54	
6 7 8	" "	- 2.8 - 3.8 - 4.3 - 3.4	0.0 0.0 0.0	+ 0.38 + 0.44 + 0.37 + 0.43	- 0·11 - 0·13 0·15 - 0·11	- 0.01 - 0.01 - 0.00	+ 0·55 + 0·55 + 0·57 + 0·57	43 R. P. L. & 24 Urs. Min
10 11 12	"	- 4·2 - 4·3 - 4·2	0.0 0.0 0.0	+0.48  +0.50  +0.52	- 0·11 - 0·09 - 0·06	- 0.01 - 0.01 0.00	+ 0 56 + 0 56 + 0 56	
13 14 15 17	"	- 5.5 - 4.3 - 5.1 - 4.8	0.0 0.0 0.0	$   \begin{array}{r}     +0.47 \\     +0.49 \\     +0.48 \\     +0.41   \end{array} $	- 0.04 - 0.01 - 0.01 - 0.01	- 0.01 0.00 0.00	十 0·55 十 0·55 十 0·56 十 0·57	43 R. P. L. & 24 Urs. Mir
18 19 20 21	" " " "	- 5·1 - 4·4 - 4·3 - 5·9	0.0 0.0 0.0 0.0	+ 0.45 + 0.44 + 0.41 + 0.33	- 0.04 - 0.01 - 0.05	0.00 + 0.01 + 0.01 0.00	+0.58 +0.59 +0.59 +0.60	49 R. P. L. and 15 Argús.
22 24 25 26	;; ;; ;;	+ 4.6 - 3.5 - 4.2 - 4.8	0.0 0.0 0.0	+ 0°34 + 0°50 + 0°48 + 0°48	+ 0.01 - 0.01 - 0.03	0.00 0.00 - 0.01	+ 0·59 + 0·57 + 0·57	TO IC. I. D. BHE TO MERGE.
27 28	17	- 4·3 - 5·9	0.0	+ 0.63 + 0.57	+ 0.03 + 0.03 + 0.03	+ 0.01 + 0.01 + 0.01	+ 0.56 + 0.55 + 0.54	49 and 131 R. P. L.
Mar. 1 3 4	,, M ,,	- 4.4 - 2.8 - 4.6	+ 0·1 + 0·1 + 0·1	+ 0.63 + 0.41 + 0.33	+ 0.06 + 0.01 + 0.12	+ 0.01 - 0.07 + 0.02	+ 0.53 + 0.50 + 0.18	51 Cephei and 8 Urs. Min
5 6 7	"	- 4·5 - 4·1 - 4·2	+ 0·1 + 0·1 + 0·1	+ 0.35 + 0.43 + 0.54	+ 0.01 + 0.10 + 0.05	- 0.03 - 0.03	+ 0.54 + 0.60 + 0.57	60 R. P. L. and & Urs. Min
8 10 11	"	- 4·1 - 4·5 - 4·2	+ 0·1 + 0·1 + 0·1	+ 0.53 + 0.22 + 0.17	+ 0.03 + 0.06	- 0.01 - 0.05 - 0.02	+ 0.50 + 0.50 + 0.50	60 and 150 R.P.L.
12 13	"	- 4·1 - 3·9	+0.1	+ 0.53 + 0.51	+ 0.07 + 0.05	- 0.03 - 0.01	+0.20	51 Cephei and & Urs. Min

Instrumental Corrections adopted in 1879.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
		,,	"	s	s	s	s		
Mar. 14 15 17 19 22 24 25 26 27 28 31	M "" "" "" "" "" "" "" "" "" "" "" "" ""	- 40 - 41 - 47 - 37 - 38 - 29 - 36 - 28 - 26 - 30	+ 0·1 + 0·1 + 0·1 + 0·1 + 0·1 + 0·1 + 0·1 + 0·1 + 0·1 + 0·1	+ 0·31 + 0·35 + 0·37 + 0·42 + 0·39 + 0·49 + 0·53 + 0·53 + 0·42 + 0·36 + 0·09	+ 0·07 + 0·08 + 0·06 + 0·10 + 0·04 + 0·07 + 0·08 + 0·09 + 0·09 + 0·09 + 0·09	0.00 - 0.01 - 0.02 0.00 - 0.04 - 0.01 - 0.01 + 0.01 - 0.02 - 0.02 - 0.01 + 0.01	+ 0·48 + 0·46 + 0·43 + 0·44 + 0·46 + 0·50 + 0·51 + 0·47 + 0·47 + 0·43 + 0·40	<ul> <li>70 R.P.L.&amp; γ Canis Majoris.</li> <li>70 and 150 R. P. L.</li> <li>70 and 150 R. P. L.</li> <li>72 and 150 R. P. L.</li> <li>70 R. P. L. and 15 Argûs.</li> <li>70 R.P.L.&amp; c Canis Majoris.</li> </ul>	
Apl. 1 2 3 4 5 7 8 9 12 16 16 17 18 22 23 24 24 25 26 28 30	R "" "" "" "" "" "" "" "" "" "" "" "" ""	- 29 - 24 - 34 - 29 - 22 - 18 - 20 - 21 - 21 - 24 - 16 - 16 - 05 - 12 - 07 - 07 - 09 - 10	- 0·1 - 0·1	+0·47 +0·42 +0·44 +0·44 +0·47 +0·651 +0·51 +0·47 +0·44 +0·51 +0·54 +0·54 +0·54 +0·54 +0·54 +0·53	+0.07 +0.08 +0.09 +0.11 +0.10 +0.12 +0.09 +0.12 +0.09 +0.16 +0.17 +0.16 +0.17 +0.16 +0.17 +0.18 +0.17 +0.18 +0.17 +0.18 +0.17 +0.18 +0.19	0·00 0·00 0·00 0·00 0·00 0·00 0·00 0·0	++++++++++++++++++++++++++++++++++++++	60 and 151 R. P. L.  72 and 150 R. P. L.  89 R. P. L. and α Hydra.  70 and 158 R. P. L.	+0.53 .53 .53 .53 .53 .53 .53 .53 .53 .53
May 1 2 3 5 5 6 7 7 8 9 9 10 12 13 14 15 16 17 22 2 24 26 27 28	m m m m m m m m m m m m m m m m m m m	- 0.8 - 0.9 + 0.3 + 0.7 + 0.7 + 0.1 - 3.0 + 3.5 + 4.0 + 3.8 + 3.7 + 7.2 + 8.5 + 8.0 + 6.8	- 0·1 0·0 0·0 0·0 0·0 0·0 0·0 0·0 0·0 0·0	+ 0·70 + 0·68 + 0·46 + 0·56 + 0·57 + 0·56 + 0·60 + 0·54 + 0·64 + 0·64 + 0·54 + 0·59 + 0·59 + 0·59 + 0·50 + 0·56 + 0·56 + 0·54 + 0·56 + 0·56 + 0·56 + 0·56 + 0·56 + 0·64 + 0·56 + 0·56 + 0·56 + 0·56 + 0·64 + 0·56 + 0·56 + 0·66 + 0·56 + 0·56 + 0·56 + 0·66 + 0·56 + 0·56 + 0·56 + 0·66 + 0·57 + 0·56 + 0·66 + 0·57 + 0·56 + 0·56 + 0·66 + 0·57 + 0·56 + 0·56 + 0·66 + 0·57 + 0·56 + 0·56 + 0·56 + 0·66 + 0·57 + 0·56 + 0·56 + 0·56 + 0·56 + 0·66 + 0·56 +	+ 0·20 + 0·20 + 0·25 + 0·30 + 0·32 + 0·30 + 0·28 + 0·29 + 0·27 + 0·27 + 0·29 + 0·18 + 0·05 + 0·09 + 0·13	+ 0·01 + 0·01 + 0·05 + 0·07 + 0·07 + 0·05 + 0·03 + 0·05 - 0·18 - 0·18 - 0·22 + 0·06 + 0·06 - 0·06 - 0·06 - 0·06 - 0·05	+ 0.449 + 0.449 + 0.550 + 0.555 + 0.555 + 0.666 + 0.666 + 0.666	72 and 150 R. P. L. 70 and 150 R. P. L. 70 and 158 R. P. L. 99 and 150 R. P. L. 89 and 158 R. P. L. 89 and 158 R. P. L.	+0.57 -59 -59 -59 -59 -59 -59

March 19—22.—1 60 inches of rain fell.

May 12.—Object glass cleaned. Pivots oiled but not cleaned.

May 19—21.—A cyclone passed over Madras. Rainfall 4 42 inches.

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1.7 06

Instrumental Corrections adopted in 1879.

Date.	Obser- ver.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.
June 3 6 7	R "	+ 6·5 + 5·4 + 6·4	0.0	\$ + 0.49 + 0.57 + 0.56	+ 0·20 + 0·20 + 0·18	s - 0.04 - 0.02 - 0.03	* + 0.67 + 0.61 + 0.59	108 and 12 R. P. L.
9 11 12 13 14 16 18 19 20 21	2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	+ 4·6 + 4·5 + 5·0 + 1·9 + 5·8 + 4·8 + 5·2 + 4·5 + 5·0	0.0 0.0 0.0 0.0 0.0 0.0	+ 0·54 + 0·60 + 0·68 + 0·70 + 0·61 + 0·54 + 0·53 + 0·52 + 0·52	+ 0·19 + 0·20 + 0·20 + 0·20 + 0·20 + 0·20 + 0·19 + 0·20 + 0·21	- 0.02 - 0.03 - 0.04 - 0.02 - 0.04 - 0.01 - 0.02 - 0.02 - 0.02	+ 0.54 + 0.50 + 0.48 + 0.48 + 0.49 + 0.49 + 0.50 + 0.50 + 0.50	103 and 12 R. P. L.
23 27 30	2; 2; 2; 1;	+ 4·6 + 3·9 + 4·5	0.0 0.0 0.0	+050 +055 +055 +080	$     \begin{array}{r}       + 0.21 \\       + 0.19 \\       + 0.19 \\       + 0.18     \end{array} $	- 0·02 - 0·01 - 0·02 - 0·03	+0.51 +0.51 +0.52 +0.53	No. 1
July 2 4 7 8 9 10 11 12 15 24 25 26 31	M ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	+ 37 + 44 + 30 + 54 + 33 + 42 + 66 + 78 + 54 + 55	+ 0·3 + 0·4 + 0·3 + 0·3	+ 0·77 + 0·59 + 0·49 + 0·44 - 0·67 - 1·10 - 0·59 - 0·62 - 0·59 - 0·20 - 0·36 - 0·50 - 0·54	+ 0·13 + 0·17 + 0·19 + 0·29 + 0·21 + 0·21 + 0·21 + 0·27 + 0·25 + 0·20 + 0·19 + 0·16	- 0.08 + 0.01 0.00 - 0.01 + 0.02 + 0.02 - 0.02 0.00 + 0.07 + 0.01 + 0.02 - 0.02	+ 0.54 + 0.55 + 0.55 + 0.56 + 0.56 + 0.55 + 0.67 + 0.67 + 0.67 + 0.69	116 and 34 R. P. L.  5 Urs. Min. and 40 R. P. I  5 Urs. Min. and a Horculis
Aug. 1 5 6 7 9 11 12 13	R ""	+ 4·8 + 5·1 + 4·5 + 3·5 + 3·4 + 3·6 + 3·5 + 4·2	0.0 0.0 0.0 0.0 0.0 0.0	- 0.55 - 0.13 - 0.22 - 0.29 - 0.22 - 0.24 - 0.13	+ 0·15 + 0·16 + 0·16 + 0·17 + 0·16 + 0·16 + 0·18 + 0·17	0.00 + 0.03 + 0.02 + 0.02 + 0.02 + 0.03 + 0.01	+ 0.69 + 0.70 + 0.70 + 0.70 + 0.71 + 0.71 + 0.71	
14 16 19 20 21 23 25 27 28	17 17 17 17 17 17 17 11	+ 3·5 + 4·6 + 6·2 + 5·5 + 7·9 + 7·8 + 7·7 + 8·3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 006 - 026 - 022 - 022 - 027 - 026 - 010 + 014 + 014	+ 0·19 + 0·15 + 0·06 + 0·03 + 0·03 + 0·08 + 0·09 + 0·09 + 0·08	+ 0.01 + 0.02 + 0.01 + 0.04 + 0.02 + 0.03 + 0.02 + 0.03 + 0.03	+ 0·72 + 0·72 + 0·73 + 0·75 + 0·76 + 0·77 + 0·78 + 0·77 + 0·76	δ Urs. Min. and 51 Cophei
Sep. 1 2 3 4 8 13 15 16 17	" " M R	+ 8.8 + 8.9 + 7.9 + 10.2 + 8.6 + 4.9 + 5.8 + 6.6 + 3.7	0.0 0.0 0.0 0.0 0.0 0.0	- 0·19 - 0·17 - 0·10 - 0·02 - 0·00 - 0·16 - 0·11 - 0·07 + 0·05	0.00 + 0.02 + 0.06 + 0.09 + 0.15 + 0.18 + 0.19 + 0.19 + 0.20	+ 0·02 + 0·02 + 0·02 + 0·02 + 0·03 + 0·02 + 0·03 + 0·03 + 0·04	+ 0.74	141 and 49 R. P. L.

On July 9 at 9h. 45m. S. T. the clock was put back one minute and the rate reduced. July 24.—Collimators cleaned. Pivots cleaned and oiled.

Instrumental Corrections adopted in 1879.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
		,,	"		s		s		
Sep. 18 19 20 24 25 26 27 29 30	R	+ 3·9 + 4·2 + 2·2 + 1·5 + 0·9 + 0·8 + 0·9 + 0·8	0·0 0·0 0·0 0·0 0·0 0·0	+ 0·12 0·00 - 0·13 - 0·18 - 0·16 - 0·12 - 0·11 - 0·15 - 0·17	+ 0·22 + 0·21 + 0·20 + 0·20 + 0·25 + 0·27 + 0·22 + 0·22 + 0·23	+ 0.02 0.00 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01 + 0.01	+ 0.66 + 0.65 + 0.65 + 0.65 + 0.65 + 0.65 + 0.67 + 0.71 + 0.73	141 and 49 R. P. L. 141 and 60 R. P. L.	+ o · 67 · # 9
Oct. 2 3 6 6 7 8 9 9 13 14 15 16 17 20 23 25 27 28	12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	$\begin{array}{c} + & 3 \cdot 0 \\ + & 8 \cdot 2 \\ + & 8 \cdot 0 \\ + & 8 \cdot 2 \\ + & 9 \cdot 1 \\ + & 9 \cdot 3 \\ + & 7 \cdot 7 \\ + & 8 \cdot 6 \\ + & 12 \cdot 6 \\ + & 12 \cdot 6 \\ + & 11 \cdot 2 \\ + & 10 \cdot 1 \\ + & 14 \cdot 2 \end{array}$	+ 0·3 + 0·3	$\begin{array}{c} -0.26 \\ -0.27 \\ +0.19 \\ +0.11 \\ 0.00 \\ +0.06 \\ +0.01 \\ +0.08 \\ +0.06 \\ +0.07 \\ +0.04 \\ +0.04 \\ +0.06 \\ -0.09 \\ -0.01 \\ +0.05 \\ -0.01 \\ \end{array}$	+ 0·32 + 0·32 + 0·23 + 0·21 + 0·20 + 0·12 + 0·15 + 0·14 + 0·12 + 0·08 + 0·05 + 0·15	- 0·01 - 0·01 + 0·04 + 0·05 + 0·03 + 0·11 + 0·05 + 0·01 + 0·05 + 0·01 + 0·04 + 0·01 + 0·05 + 0·03 0·00	+ 0.79 + 0.85 + 0.89 + 0.85 + 0.85 + 0.84 + 0.83 + 0.83 + 0.82 + 0.82 + 0.82 + 0.82	10 and 89 R. P. L.  11 Cephei and 89 R. P. L.  158 and 108 R. P. L.	72 73 77 77 77 77 77 77 77 75 77 75
Nov. 1  4 5 8 10 11 12 19 20 24 25 26 26 27 28 29	31 32 33 33 33 33 33 33 33 33 33 33 33 33	+ 11·7 + 10·2 + 10·3 + 11·5 + 9·3 + 9·9 + 12·2 + 10·3 + 10·4 + 8·8 - 1·9 - 2·6 - 2·3 - 4·2 - 4·4 - 2·4	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	+0·01 +0·05 +0·04 -0·06 -0·17 -0·22 -0·26 -0·24 -0·48 -0·48 -0·30 -0·22 -0·15 -0·30 -0·22 -0·17 -0·18 -0·10	+0·01 +0·03 +0·04 +0·02 +0·03 +0·02 -0·03 -0·02 +0·03 -0·04 -0·22 -0·21 -0·21 -0·21 -0·24 -0·25	+0·03 +0·02 +0·01 +0·06 +0·02 +0·02 +0·01 +0·01 +0·02 +0·03 +0·03 +0·03 +0·04 +0·04	+ 0.81 + 0.87 + 0.92 + 1.09 + 1.05 + 1.04 + 0.95 + 0.94 + 0.03 - 0.11 - 0.28 - 0.20 - 0.20 + 0.23	150 and 69 R. P. L.  14 and 99 R. P. L.  14 and 99 R. P. L.  14 and 99 R. P. L.  2 Urs. Min. and 89 R. P. L.  7 Piscium and 111 R. P. L.	.2
Dec. 1 2 3 5 6 8 9 10 11 12 17	); ; ; ; ; ; ; ; ; ; ; ; ; ;	- 3.7 - 4.6 - 4.8 - 4.5 - 4.8 - 4.9 - 4.6 - 4.8 - 5.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 0·21 - 0·26 - 0·22 - 0·12 - 0·13 - 0·21 - 0·30 - 0·35 - 0·30 - 0·27 - 0·45	- 0·26 - 0·28 - 0·25 - 0·22 - 0·24 - 0·24 - 0·28 - 0·27 - 0·28 - 0·25 - 0·25 - 0·22	+0·04 +0·05 +0·06 +0·04 +0·04 +0·04 +0·04 +0·03 +0·04 +0·04	- 0·18 - 0·18 - 0·98 - 0·95 - 0·25 - 0·48 - 0·46 - 0·37	14 and 99 R. P. L. — 35 R. P. L. & R Camelopardi	22.2

November 21.—Azimuth adjusted. November 23.—Collimation and microscopes adjusted.

INTRODUCTION.

Instrumental Corrections adopted in 1879.

Date.	Observer.	Index.	Run in 5'.	Clock Rate.	Inclina- tion.	Collima- tion.	Meridian.	Determining Stars.	
Dec. 18 19 20 26 30	R ""	" - 5.5 - 5.6 - 5.3 - 6.2 - 5.4	" 0.0 0.0 0.0 0.0 0.0	5 - 0.48 - 0.41 - 0.30 - 0.31 - 0.38	s - 0·20 - 0·18 - 0·18 - 0·22 - 0·23	+ 0.05 + 0.04 + 0.04 + 0.04 + 0.05	10.35 -0.33 -0.28 -0.30 -0.33	35 R.P. L. & R Camelopardi. 35 R.P. L. & R Camelopardi. 35 and 115 R. P. L. 40 R. P. L. and e Urs. Min.	13.

INTRODUCTION.

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.	A	pproz	imate		1877.			1878.			1879	
Near a		Place	1878.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h.	m.	۰ ،		ន	"		s	"		8	,,
a Andromedæ .	. 0	2	61 35	2	+ 0.10	+ 0.5	4	+ 0.01	+ 0.8	3	+ 0.08	- 0.7
$\gamma$ Pegasi (Algenib).	. 0	7	75 30	4	- 0.03	+ 0.4	2	+ 0.01	- 0.8	7	+0.02	- 1.5
12 Ceti	. 0	24	94 38	5	- 0.01	- 0.3	1	+ 0.12	- 1.6	3	- 0.06	- 0.3
ß Ceti	. 0	37	108 39	4	+ 0.02	- 0.5	5	- 0.04	- 2.2	4	+ 0.05	- 2.6
e Piscium	. 0	57	82 46	5	- 0.04	- 0.6	9	- 0.02	- 1.1	8	- 0.05	- 2.1
a Urs. Min. (Polaris)	1	14	1 20	9	+ 0.08	+ 2.7	6	- 0.02	- 1.1	2	- 1·42	+ 1.3
θ Ceti	. 1	18	98 49	4	0.00	- 0.5	8	+ 0.04	- 1.1	4	+ 0.04	- 1·1
n.	. 1	25	75 17	4	+ 0.04	+ 0.1	8	- 0.04	+ 0.1	9	- 0.02	- 0.4
ν Piscium ,	. 1	35	85 8	4	0.00	- 0.6	9	- 0.04	- 2.2	7	+ 0.01	- 1.2
β Arietis	. 1	48	69 47	3	+ 0.02	+ 0.5	9	+ 0.04	+ 0.6	6	0.00	+ 0.1
α Arietis	. 2	0	67 7	3	- 0.06	+ 1.0	11	- 0.03	+ 0.1	7	~ 0.01	- 0.5
67 Ceti	. 2	11	96 59				8	+ 0.03	- 2.3	16	+ 0.06	- 2.7
ξ² Ceti	. 2	22	82 5	1	- 0.10	- 1.9	3	0.00	- 1.7	9	+ 0.03	- 0.9
$\gamma^2$ Ceti	. 2	37	87 17	4	+ 0.07	- 1.1	6	+ 0.01	- 0.7	2	0.00	- 1.3
a Ceti	. 2	56	86 23	4	+ 0.03	- 2.5	8	- 0.01	- 2.2	2	+0.04	- 3.0
δ Arietis	. 3	5	70 44	5	+ 0.02	+ 0.4	3	+ 0.03	+ 1.0	4	+ 0.07	+ 0.1
α Persei	. 3	16	40 34							1	+ 0.04	- 0.7
e Eridani	. 3	27	99 52	4	+ 0.19	- 1.1						
η Tauri	. 3	40	66 16	6	+ 0.01	+ 0.2	8	+ 0.02	+ 1.1	2	- 0.10	- 0.7
$\gamma^1$ Eridani	. 3	52	103 51	7	+ 0.01	- 0.2	8	+ 0.02	- 0.5	4	0.00	- 0.8
o¹ Eridani	. 4	6	97 9	5	- 0.02	- 1.1	1	+ 0.04	- 3.1	4	- 0.03	- 1.7
ε Tauri	. 4	21	71 6	10	+ 0.01	+ 0.4	7	- 0.02	+ 0.6	6	- 0.02	+ 0.7
a Tauri (Aldebaran).		29	73 44	4	+ 0.03	- 0.4	3	+ 0.02	+ 0.2	6	+ 0.01	+ 1.3
ι Aurigæ		49	57 2	12	- 0.02	- 0.2	6	+ 0.02	- 1.2	16	+ 0.05	+ 0.3
ε Leporis	. 5	0	112 32	7	+ 0.02	- 0.8	5	0.00	- 1.7	13	- 0.03	- 1.6
β Orionis (Rigel) .	. 5	9	98 21	3	+ 0.03	- 0.2	3	0.00	- 1.7	4	- 0.01	- 2·5
β Tauri	. 5	19	61 30	6	0.00	- 0.3	4.	- 0.06	- 0.3	8	- 0.05	0.0
δ Orionis	. 5	26	90 23	3	0.00	- 2.0	2	0.00	- 3.3	6	- 0.05	- 2.6
α Leporis	. 5	27	107 55	2	+ 0.04	+ 0.2	1	- 0.02	- 1.2	2	+ 0.08	- 1.5
e Orionis	. 5	30	91 17	3	+ 0.05	+ 0.5	3	- 0.01	- 1.3	5	- 0.01	- 1.9
a Columbæ	. 5	35	124 8				2	- 0.13	+ 0.3	4	- 0.16	+ 0.4
a Orionis	. 5	49	82 37	4	+ 0.01	- 1.8	8	+0.02	- 2.2	4	- 0.05	- 2.1
ν Orionis	. 6	1	75 13	6	- 0.01	- 0.4	8	+ 0.02	- 1.7	6	+ 0.02	- 1.6
μ Geminorum	6	16	67 26	2	0.00	0.0	12	+ 0.01	- 0.6	10	+ 0.01	- 1·3
γ Geminorum	6	31	73 30	9	- 0.02	+ 0.5	11	+ 0.02	+ 0.3	4	+0.02	+ 0.5

INTRODUCTION.

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Stars.		oximate ce 1878.		1877.	,		1878.			1879.	
	15184	3e 1076.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.
	h. m			s	"		8	"		8	,,
51 Cephei (Hev.)	6 4	3 2 46	5	- 0.13	+ 0.1	2	- 0.24	- 2.0	3	- 0.73	+ 1.1
€ Canis Majoris	6 5	1 118 48	4	- 0.04	- 0.1	4	0.00	- 0.6	13	- 0.07	- 2.4
γ Canis Majoris	6 5	8 105 27				11	- 0.01	- 1.0	13	+ 0.01	- 0.8
a <sup>2</sup> Geminorum( <i>Castor</i> )	7 2	7 57 51	2	- 0.03	- 0.7	16	+0.03	+ 0.1	10	- 0.05	0.0
a Cau. Min. (Procyon)	7 3	84 28	11	- 0.06	- 2.6	3	- 0.01	- 4.2	5	- 0.14	- 5.7
β Geminorum(Pollue)	7 3	8 61 41	7	0.00	+ 0.7	2	+ 0.02	+ 0.4	6	0.00	+ 0.1
6 Canori	7 5	6 61 52	3	+ 0.03	- 0.0	10	+ 0.02	- 0.4	14	+ 0.05	- 0.9
15 Argûs (Navis)	8	2 113 57	7	+ 0.03	0.0	4	- 0.03	- 1.6	9	- U·05	- 1:0
η Cancri	8 2	60 9	5	+ 0.04	- 0.0	10	+ 0.01	- 0.5	20	+ 0.09	- 1.0
e Hydræ	8 4	0 83 8	-1	- 0.03	+ 0.2	3	- 0.14	- 2.7	5	+ 0.02	- 4:0
83 Cancri	9 1:	2 71 47	11	+ 0.03	+ 0.5	6	+ 0.08	+ 0.2	2	0.00	- 1.0
a Hydra	9 2	2 98 8	10	+0.03	- 0.7	4	0.00	- 1.9	10	- 0.01	- 3.6
ε Leonis	9 3	65 40	7	- 0.03	+ 0.6	7	+ 0.01	- 1:4	14	+ 0.03	- 1.1
π Leonis	9 5	4 81 22	10	+ 0.01	- 0.6	17	- 0.01	- 2.7	15	- 0.05	- 2.7
a Leonis (Regulus)	10	2 77 26	7	- 0.03	- 0.4	8	0.00	- 1.0	4	- 0.04	- 1.4
$\gamma^1$ Leonis	10 1	69 33	6	- 0.01	- 1.7	1	- 0.02	- 2.5	11	+ 0.03	- 1.9
ρ Leonis	10 2	80 4	7	- 0.03	- 0.0	6	-0.02	- 3.5	4	- 0.06	- 2.8
<i>l</i> Leonis	10 4	78 49	7	+0.03	- 0.5	18	+0.03	- 2.7	14	+ 0.03	- 1.7
χ Leonis	10 5	82 0	9	+ 0.02	- 0.3	14	-0.01	- 3.2	8	+ 0.05	- 2.8
δ Leonis	11 3	68 48	7	- 0.01	- 0.8	6	- 0°02	- 2.2	3	+ 0.07	- 1.9
δ Crateris	11 13	3 104 7	5	- 0.03	- 1.3	20	- 0.05	- 1.1	6	- 0.05	- 1:4
υ Leonis	11 3	L 90 9	5	+0.02	- 0.2	16	+ 0.01	- 1.6	3	+ 0.03	- 1.5
β Leonis	11 43	3 74 45	4	+ 0.05	+ 0.1	6	+ 0.08	+ 0.8	6	- 0.07	+ 0.1
€ Corvi	12	111 56	6	- 0.08	- 0.9	8	- 0.04	- 1.2	5	- 0.01	+ 0.2
η Virginis	12 1	1 89 59	10	+ 0.01	- 0.8	4	+ 0.04	- 1:5	5	+ 0.01	- 0.5
β Corvi	12 28	3 112 43	8	+ 0.06	- 05	2	+ 0.51	- 2.7	12	+ 0.08	- 2.2
γ Virginis (Mean)	12 3								1	- 0.07	- 0.8
α Canum Venaticorum	12 50	51. 1	4	- 0.03	- 1.6	2	- 0.08	- 0.2			
θ Virginis	13	94 53	3	- 0 <b>·02</b>	- 04	. 5	+0.04	- 1.9	1	+ 0.15	- 1:9
a Virginis (Spica)	13 19	100 31	4	0.00	- 0.7	4	0.04	- 0.5	4	+ 0.02	- 0.9
ζ Virginis	13 28	89 58	4	- 0.05	- 1.6	4.	+ 0.05	- 1.7	11	- 0.01	- 1.8
η Bootis	13 49		5	- 0.03	+ 0.5	6	- 0.02	+ 0.1	5	+ 0.01	- 1:1
τ Virginis	13 5	87 52	6	0.07	- 0.9	3	- 0.01	- 2.6	10	0.00	- 2.4
a Bootis (Arcturus)	14 10	70 11	5	+ 0.02	+ 1.7	7	+ 0.03	+ 1.8	5	0.00	+ 0.4
ρ Bootis	14 27	59 6	4	0.00	+ 0.3	9	- 0.02	- 0.4	14	+ 0.02	0.0

xxiv.

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

<b>a</b> .		Aı	opro	kimate		1877.				1878.				1879.		
Stars.				1878.	Obs.	R. A.	P.	D.	Obs.	R. A.	P.	D.	Obs.	В. Л.	Ρ.	D.
		h.	m.	۰,		s				8	,	,		s		,,
€² Bootis		14	40	62 25	2	+ 0.02	-	0.1	4	+ 0.06	_	0.2	1	+ 0.10	_	0.5
a Libræ		14	44	105 32	3	+ 0.04	_	0.7	7	0.00	_	0.8	5	- 0.02	_	1.1
ψ Bootis		14	59	62 35	3	- 0.06	_	0.1	5	0.00	_	0.3	6	- 0.03	_	0.8
β Libræ		15	10	98 56	2	0.00	_	0.2	12	- 0.01	-	1.0	3	- 0.02	_	0:2
a Coronæ		15	30	62 52	7	- 0.01	_	0.5	9	+ 0.03	_	1.3	6	- 0.08	_	1 (
0			••	00.11	10											
-		15	38	83 11	10	+ 0.02	_	1.3	12	- 0.01	-	1.7	4	0.00	-	3 :
· •	••	15 16	58 8	109 28 93 23	16 15	0·00 0·01	-	1.7	9	+ 0.02	-	2.7	1	+ 0.30	-	4.1
a Scorpii (Antares).	••	16	8 22	116 10	11	0.00	+	0.3	15	- 0.01	١ .	0.1	1	0.00	+	0.1
(Herculis	"	16	37	58 11	11	0.00	_	1·1 1·3	10 4	+ 0.05	' '	0.1	2	- 0.05	-	0.6
2 mercuna		10	07	90 11	-1.	0.00	+	1.2	4	- 0.09	+	0.9	3	- 0.02	+	0.0
к Ophiuchi		16	52	80 26	7	0.00	-	0.7	4	+ 0.06	_	0.8	4	0.00	_	0.5
€ Ursæ Minoris .		16	59	7 46	4	+ 0.61	_	0.4	4	+ 0:44	_	0.4	7	+ 0.67	+	4.4
a¹ Herculis		17	9	75 28	7	0.00	_	1.5	3	+0.02	_	3.6	9	- 0.02		2.
		17	15	114 53	2	+ 0.07	_	0.9	2	+ 0.04	+	0.5	2	+ 0.02		0.0
a Ophiuchi		17	29	77 21	7	+0.01	_	0.1	4	+ 0.02	_	3.1	4	0.00		2.:
μ Herculis		17	42	62 12	8	- 0.03	_	1.1	7	0.00	_	2.4	10	- 0.08		1.4
μ Sagittarii		18	6	111 5	12	+ 0.03	-	0.8	3	- 0.06	_	1.9	14	+ 0.03		1.4
δ Ursæ Minoris .		18	12	3 23	8	- 0.13	_	0.1	7	- 0.02	+	1.2	4	- 0.37	+	0.5
α Lyræ	•••	18	33	51 20	12	- 0.02	_	0.4	3	- 0.04	_	3.8	4	- 0.09	_	0%
β¹ Lyræ		18	<b>4</b> 6	56 47	11	- 0.02	-	0.2	9	- 0.01	_	1.3	13	- 0.01		0.4
ζ Aquilæ		19	0	76 19	5	+ 0.06	+	0.3	6	+0.01	ļ	9.0	7.			
ω Aquilæ		19	12	78 37	7	- 0.01		0.8	5	0.00	_	2·0 3·3	15 7	- 0.01	-	1.5
ð Aquilæ		19	19	87 8	6	+0.01	_	0.2	10	+ 0.01	-	3·3 2·0	1	+0.01	-	1:
h² Sagittarii .		19	29	115 9	3	+ 0.07	+	0.8	6	+0.01	-	2.1	8	+ 0.04	-	1:
$\gamma$ Aquilæ		19	40	79 41	4	- 0.04	_	1.2	8	- 0.01	_	2.6	9	0.00 + 0.03	_	1.7
α Aquilæ (Altair) .		10		07.55						001		20	ľ	0.00	_	1.7
		19 19	45 46	81 27	4	- 0.07	-	1.2	2	+ 0.01	-	2.5			٠.,	
A Agrila		19	_	1 4		•••••	1	••••		•••••	٠	•••	1	- 0.93	+	0.6
a2 Camina		20	49 11	83 54 102 55	3	- 0.02	+	0.3	7	0.00	-	2.9	8	+ 0.07	_	3.
a Canricomi	•	20	22	102 55	8	+ 0.03	-	0.2	9	+ 0.05	-	1.7	5	+ 0.04	_	1.8
	"	20	44	T/Q 12	7	+0.10		0.0	15	+ 0.07	-	0.6	8	+ 0.09	_	0:
		20	37	45 9	12	+ 0.02	+	0.2	5	- 0.02		0.0		6.00		
		20	49	62 24	9	0.00	_	0.2	10	- 0.08	-	0.9	4	- 0.26	_	2.
		21	8	60 16	16	0.00	_	0.2	8	- 0.01	-	1·4 1·0	10	- 0.06	-	2.
		21	25	96 6	16	- 0.01	_	0.1	7	- 0.02	-	0.0	7	- 0.02	-	2.5
e Pegasi	••	21	38	80 41	2	- 0.04	_	1.8	3	- 0 04	_		9	+ 0.14		1.1
		===							۱	- 004		0.2	5	- 0.02	-	1.4

Corrections to the Nautical Almanac Stars as given by the Madras Mean Positions.

Star.				imate		1877.			1878.		1879.			
			ace	1878.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	Obs.	R. A.	P. D.	
·		h.	m.	o ,		s	"		s	,,		8	"	
16 Pegasi		21	48	64 39	G	- 0.06	- 0.2	2	- 0.07	- 1.3	7	- 0.08	- 2.7	
a Aquarii		22	0	90 55	8	- 0.03	- 0.4	5	+ 0.04	0.0	4	+ 0.07	- 1.4	
θ Aquarii		22	10	98 23	13	- 0.01	- 1.6	4	+ 0.04	- 1.7	6	0.00	- 1.9	
η Aquarii		22	29	90 45	15	+ 0.03	+ 0.2	9	+ 0.05	+ 0.3	4	+ 0.05	- 1.9	
( Pegasi	•	22	35	79 48	9	- 0.03	- 0.8	10	- 0.01	- 0.6	6	+ 0.02	- 1.6	
a Pis. Aus. (Fomalhau	t)	22	51	120 16	1	+ 0.11	+ 0.8	2	- 0.06	+ 0.2	2	+ 0.10	- 0.5	
a Pegasi (Markab) .		22	59	75 27	11	0.00	+ 1.2	10	- 0.03	+ 0.8	7	- 0.03	+0.5	
γ Piscium		23	11	87 23	1	- 0.01	- 1.2	6	+ 0.02	- 0.9	5	- 0.04	- 1.8	
κ Piscium	.	23 2	21	89 25	2	+ 0.03	- 0.9	3	- 0.02	0.0	3	- 0.01	- 2.5	
Piscium		23 3	34	85 2	15	- 0.01	- 0.6	4.	- 0.04	- 1.1	4	+ 0.02	- 1.4	
δ Sculptoris		23 4	13	118 48	8	+ 0.01	+ 1.0	1	- 0.01	0.0	6	+ 0.01	+ 0.6	
ω Piscium		23 5	53	83 49	10	- 0.04	- 2.0	2	- 0.03	- 2.2	5	- 0.05	- 2.1	

# ERRATA.

Page.	No.	Subje	ot.			For	Read
		In Madras Meridian	Circle Ob	servation	s for 186	5, 66, and 67.	
66 68	85 129	Degrees of Mean P. D.				161 158	151 153
70 ,,	142 143	Hours of Mean R. A.	•••	•••		152 8	153 3
		In Madras Meridian	Circle Ob	servation	s for 187	1, 72, and 73.	
<sup>5</sup> 38}	60	Degrees of Mean P. D.		<b></b> .		79	81
		In Madras Meridian	Circle Ob	servation	ns for 187	77, 78, and 79.	
5 54	53	Seconds of Mean R. A.	•••	•••		{ 23·02 { 22·92	$\frac{22.68}{22.54}$
40 } 78 }	460	Name	•••			22.97	22·61 delete 54
61	160 173	Sign of proper motion in	P. D. R. A.			-	+
67 73 77	275 365 427	Name Annual Precession in P. Sign of proper motion in	D	•••		+ 26 1.658	27 1.669
86 "	9 ,, 17	Seconds of Mean R. A. Minutes of Mean P. D. Minutes and seconds of I	•••		•••	52·98 50	+ 52·71 40
87	35	Seconds of R. A		J 		56 8·9 { 9·97 { 10·26	57 9·9 9·67 }
88 89	38 55 61	Date Seconds of Mean R. A. Minutes and Seconds of				13 36·67	9·76 } Dec. 13 36·37
93 94 )	124 128	Seconds of Mean R. A.	mean P.	D 	•••	11 55·9 44·11 36	13 36·5 42·32 37
164 } 129 }	148	" "		•••		41.42	41.68
190 }	596	Seconds of Mean R. A.  Degrees of Mean P. D.				41·50 8	41.12
138 ) 196 }	730	Seconds of Mean P. D.		•••		10.1	$\begin{matrix} & 6 \\ 7 \cdot 1 \end{matrix}$
141 141)	774	Date	•••			36·10 2	35·93 Sep. 2
200 }	771	Seconds of Mean P. D.	•••			31	21
	914	Seconds of Mean R. A.	•••			{ 44·60 } 44·78	44·39 } 44·49 }
" 157	20	Name	•••	•••		{ 37·12 { 37·36 2	36·97 } 37·13 }
159 163	39 46 111		n R. A. n P. D. n R. A.	•••		- + +	20 - -
"	137		n R. A. n P. D.	•••		+ -	+

age.	No.	Subject.			For	Read
175	341	Sign of proper motion in R. A.				+
179	389	Annual Precession in R. A			3.5381	3:5361
181	452	11	•••		3.1965	3.1973
,,	11	Secular Variation	•••		0.4892	0.4929
185	504	Annual Procession ,	•••	:::	3.8063	3.8057
191	,,	Annual Procession in R. A	•••	1	2.8700	4:5957
191	31	Secular Variation in R. A	·••		0.3963	0.7034
,,		in P. D	•••		0.288	0.465
,,	626	Sign of proper motion in P. D.	•••		(7200	
193	658	Annual Precession in R. A	•		3.3000	+ 3:3633
194	687	Seconds of Mean R. A.	•••		12	13
197	718	Annual Procession in P. D	•••		3.212	3.215
	721	Sign of proper motion in P. D.	•••		9.019	
199	750	Annual Precession in R. A	•••		2 8121	3:8121
,,	752	:- D D	• • • •		6.867	
i	757	Secular Variation in P. D	•••		0.021	6.862
203	834	Sign of Annual Precession in R. A.	•••		+	0.031
		Annual Precession in P. D.	•••		13.660	13.634
208	914	Seconds of Mean R. A	•••		44.69	44.44
,,	915		•••		37:24	
209	933	Secular Variation in R. A	•••		0.0398	37:05
211	948	Sign of proper motion in P. D.	•••	•••	0.0000	0.0388
	949		•••		- 1	+
214	11	Seconds of Menn P. D. "	•••		0.0	+ 3.0
216	37	Date	•••	***		
223 )	•		•••		***	delete Sep.
294 }	143	Seconds of Mean R. A			27:68	27:96
- <u> </u>					-	man stranger of the stranger o
	750				7	
2 . 6 . 7	804	1 Same Fred It			12.5	19 12.1
33	91.01 14	1			an	
330					*	711
5 4		•			151271	11.12

#### SEPARATE RESULTS

OF

#### **OBSERVATIONS**

#### OF THE FIXED STARS

MADE WITH THE

# MADRAS MERIDIAN CIRCLE

IN THE YEAR

1877

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Mean Right Ascension 1877.  h. m. s. ⊠	Mean Polar Distance 1877.	Number and 1877. Some
="	1 21	Andromedæ a, Alph	herat.	9 β Tucanæ—1st.
1.99	Nov. 23   24		61 35 19·5 M 35 20·3 M	Oct. 18   4·0   0 25 53-93     153 38 11·5   R   54·08 3·71   20   4·0   25 53-94     38 10·8   R   3·09 3·69   31   4·0   25 53-97     38 10·7   R   3·74 3·74   3·74
37·15 ·17 ·05 \$7·12	17 2	11 Cassiopeiæ β  3   0 2 37 25      0   2 37 25      0   2 37 25	31 31 44 4 R 31 44 0 R 31 44 8 R	10 \$\beta\$ Tucanæ - 2nd.  Nov. \( \begin{array}{c c c c c c c c c c c c c c c c c c c
-11-	3	$\epsilon$ Phænicis.		11 31 Andromedæ δ
	3 4	0     0     3     9.66        0     3     9.68        0     3     9.56	136 25 34.7 R 25 35.4 R 25 36.1 R	Oct. 1   8·0   0 32 45·88     59 48 43·6   R 20   3·0   32 45·41     48 44·1   R
	4	88 Pegasi y, Alger	ıib.	12 16 Ceti β
54-16 10 25	28 Dec. 10	0 6 54 28 6 54 18 6 54 04 6 54 21	75 30 2.6 M 30 3.5 M 30 1.3 R 30 1.8 R	Nov. 19 0 37 24.91 108 39 43.4 M 24.83 9.0 C C C C C C C C C C C C C C C C C C C
	5	8 Ceti ı		13 24 Cassiopeiæ—η 1st.
	Oct. 1 (	4.0 0 13 9.63	99 30 21.3 R	Nov. 3 40 0 41 40 30 32 50 144 R 34 83
	6	κ Phænicis.		14 24 Cassiopeiæ—η 2nd.
8	11	4·0 0 20 9·07 4·0 26 8·85	134 21 45.5 R 21 43.1 R	
11-97	7 Oct. 10	a Phænicis.	132 58 27.4   R	Oct. 31     0 49 18 09     29 56 56 7   R   Nov. 6     49 17 97     56 59 9 R
u-11	11	2.0 20 12.04	58 28.9 R	
	8 Nov. 23	12 Ceti   0 28 45 61	94 38 13.7 м	Nov. 22 0 52 14-84 8 4 24 13 2 M 15 97 29 52 15 55 8 24 14 0 M 94 Dec. 14 52 14-87 3 24 13 3 R 50
46·47 •71	29 Dec. 3	28 45 45 23 45 72 23 45 69	38 13·9 M 38 13·3 R 38 14·5 R	2 Ursæ Minoris—s.p.
	15	28 45.67	38 13·2 R	June 4 0 52 14-75 2 4 24 20 5 R

	Number and Date.	Magnitude.	Mean Ascer 187	nsion 7.	No. of Wires.	Mean I Dista 187	nce	Observer.	Number and Date.	Magnitude.	Mean Asce 18	nsion 77.	No. of Wires.	Di	in Po istan 1877.	ce	Observer.	
	17		R.	P. L. 1	<b>4</b> .				23	<b>43</b> .	Andro	n.β(	Mira	ach).				
47'13 ·83 ·22	Nov. 3 12 Dec. 10		0 55 55 55	7·/3 43:64 43:83 43:83 43:71	3 3 3	3 30 30 30	37·0 36·7 37·4	R R	Nov. 21 22 23	2·7 2·3 2·4	1 2 2 2	50.8¥ 50.8₹ 50.88		55	1	57.4 58.3 55.6	M	\$0.86 .97 .89
			R. P.	L. 14-	s.n.				24		33 Ca	ssiopei	æθ				1	
47.24	Apl. 30			43.29	_		37.5	R	Nov. 26 27	4·7 4·4	1 3 3	37 · 17 37 · 06		35		17·5 18·2	M M	37.27
				Pisciur	<u></u>				Dec. 3	4°5	3 3	37 01 37 16				17·0 17·5	R R	.26
	18		ı	ל	1 (	82 40	20.7		15	4'5	3	37.19			30	17.8	R	.23
33.67	Nov. 26 27		56	33.6f		40	20.6	M	25		Lala	nde 21	86.					
.60	Dec. 11	•••	56 56	33.06		40 40	20.1	R R	Oct. 31 Nov. 3	8.9	1 7	16.09 16.04		81	40 40	38·7 43·0	R R	16.07
63	17		56	33·65		. 40	22.3	R	6 7	9·4 9·0	7	15·9 <b>\$</b> 15·9 <b>\$</b>			40 40	41.5	R R	15-194
	19		βΙ	hænic	is.				10	9.1	7	15.88			40	43.1	R	134
33'-2'7	Oct. 31	3.2	1 0	35.44		137 22	39.2	R	26	1 <i>Ui</i>	sa Mi	noris d	α, P	olari	s.			
	20		v P	hœnici	s.				Dec. 21 27		13	2.461	3	1	20 20	48·1 46·7	M	42.61
10:52	Nov. 19	5·8 5·7	1 2	57	1	1	3 43°8 3 43°4	M	1	Ursæ	Minor	is a, 1	'ola	ris—	- <b>s</b> .p.	•		
.57	28 Dec. 10	5·9	2	10.62		,	3 43.5	M	May 3 5		1 13		2 2	1	20 20	50·7	M	
10:31	11	5.5	9	445		1	3 42·2 3 40·5	R	9 23		13 13	41-47	3		20 20	50·9 52·2	M	
10 01	21		32	l <i>Ceti</i>	η				25		13	40.74	3		20	51.7	M	
	Nov. 7	3.6	1 1 1			100 5	5.2	R	29 31		13		3		20 20	52·1	М	
3.92	10 12	3·5		23.34		5	3.8	R	27		37 C	assiope	ia d	8				
91	La	., 0		20193	· · · ·	5	3.6	R	Nov. 3	3.0	1 17	17:11 17:11 17:11		30		17·7 18·3	R	4.6.61
	22			Tucan						1 30						10.0	R	167
28'97	Nov. 24 29	5·7 5·0	1 5	5.57		152 2	5 59·7 5 58·4		28 Nov. 24	]		5 Ceti   52.36		98	49	5.6	м	
5.89 5-14	30 Doc. 12	5·0 5·0	9	26.0	1	21 21	5 58.9	R	29 Dec. 14			52.5			49 49	5·9 7·6	M R	52.55
5.76	13	5.0	9	7/			59.0	,	18	<u> </u>	17				49	6.2		. 44

Separate Results of Madras Meridian Oircle Observations in 1877.

-	Number and Date.	Magnitude.	Mean Ascer 187	77.	No. of Wires.		ean I listar 1877	ice	Observer.	aı	aber nd te.	Magnitude.	M.	ean I Scen 187		No. of Wires.	D	ean H lister 1877		Observer.		
	29	R	Seulp	toris,	Var	, 1.				37				6 A	rietis	β				_		
6	Nov. 19 20 21 Dec. 12	7·0 6·9 7·0 8·0	21	18:10 18:26 18:18 17:96	4	123	10 10 10 10	54·7 54·4 55·5 54·5	M M M	Dec.	19 21 29		1	47	50.66 50.75 50.89		69	47 47 47	39·9 39·7 38·5	R M M	50-71	
.   <u> </u>	13	7:0		18.05			10	54.9	R	38	:			-	ridan							
	30		$\gamma P$	hœnic						Jan.	6	4:0	1	51	10.05	]	142	13	18.6	R	16.05	
	Nov. 3	3.0 3.0	1 23 23	1:17 1:17 1:22	<del>'</del>	133		56·8 53·9		39 Nov.		3.0	1	54	<i>Tydri.</i> 53:64 53:79		152	10 10	9·9 9·1	R	53.23	
	31		99 P	isciun 									4					10	91	R	34	
	Nov. 22 Dec. 13 14 18		1 24 24 24 24	54·24 54·18 54·25 54·09		75	17 17 17 17	20.8 19.7 19.5 20.4	M R R	Jan. Oct.	6 10 31	57 	,	56 56 56	nedæ 21·04 21·22 21·19	γ—  	1 <i>st</i> . 48	15 15 15	39·9 41·0 39·5	R R R	21.06	21.22
	<b>32</b> Nov. 6	40		ænici		7.00	40	امید		Nov.		57	An		21-23 redæ	γ	2nd.	15_	40.1	<b>R</b>	.46	21.0
	10	4.0	1 26 26	7:50 7:50 7:47		139		44·9 46·4		Jan.			1-		22 15		<b>-4</b> 8-		37.8	R	22.76	
	33		106 1	?isciui	m v						12 16				22·01 22·03				36·1 37·0	R R	.08	21.9
į	Dec. 19 21		1 35 35	1· <del>82</del> 1·78		85	8	8·4 7·6	R M	<b>42</b> Dec.	17	1	1		ietis 14·41	a	67	7	12.8			22.6
	27 29		85 85	1·83 1·78			8 8	7·1 8·8	M		21 29			0	14·5 <u>1</u> 14·36		0,	7	12·5 15·7	R M M	14.44	
	34		52	Ceti τ						43	/		4		nguli	!-					.37	
	Nov. 3	3.5	1 38			106	35	7.7	R.	Nov.			2	2	13.63		<b>5</b> 5		44·9 43·8	M M	13.87	
	35			Ceti S			,			Dec.		 		2 2	13·62 13·63 13·60			35	44·9 44·3	M R	·68 ·68	•
1	Nov. 6 12	3.0 3.0	1 45 45	23.61 23.45		100		35·3 35·8		44	11	,			13·69   rnaci			35	43.1	R	٠٦4	
;	36		45 Cas	siopei	æε					Nov.	12	5.0	2	7	29 74	a. 	121	18	5.4	R	29.56	
	Oct. 31 Vov. 3		1 45 45	33.81		26		10·2   14·6			23 29 10	5·5 5·5 5·0		7	29·67 29·60			18 18 18		M M	·47 ·65	
	7		45	33.77	]			11.3			11	5.0	1	7	29.58			18	5.2	R R	·49 ·49	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Mean Right Ascension 1877.  b. m. s. N	Mean Polar Distance 1877.	Number and Date.    Number and Date.   Mean Right   Mean Polar Distance   Number   N	
	45	8 Trianguli δ		<b>53</b> Taylor 798.	
32.43	Nov. 22 Dec. 18	$ \begin{vmatrix} 5.9 & 2 & 9 & 32.89 \\ 5.5 & 9 & 32.77 & 4 \end{vmatrix} $	56 20 23.7 M 20 25.2 R	Nov. 27 5.4 2 17 28-63 133 45 46-6 M 22.63	1.68 1.48
83	29	5.7 9 32.78	20 25.0 м	54 24 Arietis ξ	
	46	9 Trianguli 7		Nov. 29   5:8   2 18 18:64     79 56 51:0   M   15:64     79 56 51:0   M	
0.19	Nov. 19	5.7 2 10 0.26	56 43 22.0 M	Dec. 17   5·5   18   18·56     56   51·1   n   '58   18   18·56     56   50·4   n   '53	
.36	21 Dec. 13	5·5 10 0·34 5·5 10 0·10	43 22.2 M 43 21.3 R	19 5.5 18 18.53 56 49.5 n 56	
17	15 17	5·5 10 0·19 5·5 10 0·18	43 20.8 R 43 21.8 R	62	-
•			A company of the	55 Radeliffe 706.	?
1	47	$\pi^1$ Hydri.		Nov. 28   4·3   2   18   57·26     23   9   8·0   M   67·52   Dec. 29   4·6   18   57·53     9   7·3   M   ·5	
40.18	Dec. 19 27	5.5 2 11 40.00 5.8 11 40.77	158 25 0.7 R 25 2.3 M	1	
1	48	φ Eridani.	The state of the s	Jan. 5   4.0   2 19 3 4 30   4   159 13 12.9   n   43.77	
6.55	Jan. 10	4.0 2 12 6.64	142 4 57.5 R	8 40 19 34.28 13 14.4 R 34.08 10 4.0 19 34.44 13 11.4 R 33.94	
·43	13 15	4.0 12 6.61	4 58.5 R 4 54.2 R	57 73 Ceti ξ <sup>2</sup>	•
		4.0 12 6.66	* O.B.21 N		
	49	$\pi^2$ Hydri.			
	Dec. 21	5.9 2 12 55.11	158 18 59.2 м	4:40	
1	50	S Persei, Var. 4			
	Jan. 5	10.5 2 14 2.38	31 58 37'9 R		
2.54	6	10.6 14 2.56	58 36.9 R	Jan. 8 4.0 2 33 10.8% 90 12 12.5 R	
į	51	Anon.		60 ι Eridani.	
27.49	Jan. 12	8.9   2 14 27 86	31 43 42.9 R	Jan. 5   4·0   2 35 48·58     130 22 58·9   R   10   4·0   35 48·74     22 59·6   R	
	52	к Fornacis.		48.65	
54.87	Nov. 12	5.0 2 16 55.01	114 22 33.4 в	61 86 Ceti γ—2nd.	
90	26 Dec. 3	5·7 16 54·83 5·5 16 55·11 5·5 16 54·93	22 34·0 M 22 33·9 R	Jan. 1 2 36 55-82 87 16 59-7 R 36 55-78 17 0.0 R S5-7/	
83	10	5.5 16 54.92	22 84-3 R	Dec. 18 36 55.68 17 1.3 B	
-87	11	5.5   16 54.92	22 32.8 R	27     36 55·68     17 3·5   <b>x</b>	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Mean Right Ascension 1877.  h. m. s. o. N	Number and Date.    Number and Date.   Mean Right Ascension 1877.   Mean Polar Distance 1877.   Mean Polar Distanc	
	62	89 <i>Ceti</i> π	R. P. L. 33—s.p.	
16.09	Jan. 6	4.0 2 38 16.10 104 22 48.4 B	June 1     3 3 30-37   3   5 31 46.5   R   32.0	s
13	8	4·0 38 16·16 22 51·6 R		0
15.99	12	4.0 38 18-64 22 50.2 R	70 57 Arietis δ	
	63	41 Arietis.	Jan. 4 3 4 35 88 70 44 25 0 R 5 4 35 93 44 22 8 R	
-	Jan. 5	2 42 44·55     63 14 51·0   B	8 4 35.8 44 23.7 R 35.82	,
44.53	6	42 44.53 14 50.9 B	15 4 35.82 44 24.0 R , *3	
	10	42 44 64   14 51 8 B	15     4 35 86     44 24 5   R	•
	64	3 Eridani y	71 12 Eridani.	
		1 la ma avent d	. Jan. 10 3.5 3 6 50.63 119 28 24.0 R	
	Jan. 1 5	2 50 25 05     99 23 18 0   B   50 24 97     23 16 6   B	<b>72</b> 13 Eridani ζ	
		1 1 20 200 1	Jan. 1     3 9 51 35 4   99 16 38 4   R	
	65	heta Eridani—1st.	5 9 51·42 16 39·8 R	
38.74	Jan. 6	3.5 2 53 35.7% 130 47 54.6 R	73 16 Eridani 74	
55	10	3·5 58 35·62 47 56·8 R	Jan. 1   3.5   3 14 2.49     112 12 25.9   R	
	66	heta Eridani—2nd.	4 3.4 14 2.52 12 266 R	
		1	6 14 2·53 12 23·6 R 2·51	
36.73 '54	Jan. 8 13	5·5 2 53 36·65 130 47 56·2 R 5·5 53 36·65 47 58·0 R		
•		58   53 86 65     47 58 0   R	74 18 Eridani e	
	67	92 Ceti a, Menkar.	Jan. 1 3.4 3 27 7.83 99 52 32.5 R 5 3.5 27 7.96 52 32.1 R	
50.99	Jan. 16	2 55 5 <del>1.00</del>     86 23 36.2   R	10 3.5 27 8-00 52 33.6 R 7.48	
51.10	Dec. 17 19	55 51·18 23 36·7 R	13 3·5 27 7·99 52 33·3 R	
.05	27	55 51.07 28 37.0 R 55 50.96 23 35.4 R	75 19 Eridani τ <sup>5</sup>	
			Jan. 4 40 3 28 21.30 112 2 47.6 R	
	68	11 Eridani T3	8 4·0 28 21·42 2 48·9 R 21·37	
58.09	Jan. 12	40 2 56 58 16 114 6 27 9 B	15 40 28 21.25 2 46.9 R 41	
37.99	15	4·0   56 57·98   6 28·1   B	76 39 Persei δ	
	69	R. P. L. 33.	Jan. 7   3:0   3 24 70:00   1 42 22	
30.68	Jan. 13	3 3 20-68   3   5 31 46-6   B	4 3.0 34 10.19 36 28.4 R	
31.50	Nov. 27	3 3 39-69 3 5 31 46 6 B 3 39-51 3 31 46 9 M 3 32-38 3 31 47 3 R	5 3.0 34 10.24 36 25.8 R	
31-47	Dec. 19	3 28.38 3 31 47.3 R	Nov. 19 3.4 34 10.34 36 27.5 R 10.17	
			, , , , , , , , , , , , , , , , , , , ,	

•	Number and Date.	Magnitude.	Mean R Ascen 1877 h. m.	sion.   🛬	D	an Poistan 1877	ce	Observer.	Num an Dat	d	Magnitude.	As	nn R cens 1877	ight sion	No. of Wires.	D	n Postan 1877.	ce	Observer.	
	77		23 E1	ridani δ	3				83			34	Er	idani	$\gamma^1$					
21.42	Jan. 8	3.5	3 37	21.44	. 1100	10	53.3	R	Jan.	4		3	52	17:35		103	51	35.9	R	
.007	12	3.2	37	21.23		10	51.0	R		6 8			52 52	17.43			51	34.0	R	17.42
.24	15	3.2		21.84	•	10	52.3	R		10			52 52	17.44			51 51	35·7 35·8	R R	.42
27	16	3.2	37	21.26	·	10	51.8	R		15			52	17:40			51	35.6	R	
ĺ	78	2	5 Tauri	η, Aleg	jone.					17				17-45			51	35.6	R	.46
		ı	ا م	10.47	1 00	1.0	90.0		e -	22		6	52	17.44			51	36.2	R	1
	Jan. 4			10·47   10·42	. 66	16 16	38·6 36·8	31 R	84			R	. P	. L. 3	5.					
10.53	10			10.50	i i	16	37.3	R	Jan.	5	l	3	58	32.40	3	-1.	46	16.7	R	ij
-47	. 13		40	10.46		16	36.2	R		16			58	3 <del>5.7</del> 2	3		46	19.8	R	30.90
.46	17		40	10.47	. }	16	37.6	R				m	r	77					·	
	19	l	40	10.47	. 1	16	36.0	R	85		1	1		ri, V	1	,			. 47	
	79		26 E	ridani 1	<del>,</del>				Jan.	22 23	11.0	4	4	34.57	3 2	68	30	30.0	R	
				,					***********		1110	<u> </u>	1.	34.57	22	]	30	36.0	R	
	Nov. 21	5.3	3 40	19.67	. 102		19.3	M	86			38	E <sub>1</sub>	idani	01					
19.62	22 28	5.4	40	19·5½ 19·57	1	29 29	17·8 17·8	М	Jan.	1	<b>.</b>	1	5	51 .59	l	97	9	33.2	R	
.49	Dec. 19	5.0	40	19.59	ı	29	18.6			5			5	51.61		-	9	33.4	R	
.68	27	5.4	40	19.76		29	20.7	M		10			5	51.57			9	32.0	R	51.56
		·	den o			- 30				12 15		.	5 5	51.68 51.68			9	34.2	16	.64
	80		27 Er	idani τ'	6							ļ			l		9	35 3	R	162
33.37	Nov. 23	4.4	3 41	33.35	. ; 113	36	52.5	M	87			. '	$\gamma L$	oradı	es.					
1/3	27	4.7	4.1	33.19	į	36	52.2	М	Jan.	4	4.0	1.1	12	48.06	,	141	47	52.8	R	1
	29	4.6	1	33.32	.	36	51.1	M		. 5 16	4.0		12	47.96			47	50.4	R	
0.5.12	Dec. 21 29	4·7 5·2	11	33·32 33·32	i	36	52.8	M		18	4.0		12	48.08	l		17 17	51·0 52·6	R	48.16
33.26			41	33.92	٠ (	36	510	M		- 1.,		J <sub>0</sub>			,					
	81		$v^{2}$ $h$	ridani.					88			(	r R	eticul	i.					
	_	1	I		1.2.				Jan.	1	3.5	4	12	50:56	1	152	46	57.7	IL	
	Jan. 1	4.0	3 14	50·80 50·8 <b>9</b> 4		34 34	23·8 25·8	R	K	8	3.2	ĺ	12	50.24			46	57.8	n	50.61
50.82	12	4.0		51-03	4		26.3			13	3.5		12	50.5 <del>7</del>				56.6	R	1 .35
		·	1					!	Feb.	15 20	3·5 3·6			50·54 50·75				56·8 58·7		158
	82		Lalan	de 7193						<u></u>			10	00.70			47	967	М	li .
	Nov. 20	7.5	1 9 17	26.5%	١ ـ.,	1.1	36.7	1	89			41	. Ei	idani	υ4					
26.53	NOV. 20	7.6		26.75	i	14	38.0		Jan.	6	3.5			5 14:28	-	124	6	1.2	R	14.25-
'73	22	7.7	4.7	26.72	.	44	38.0	м		10	3.2	-	13	14.85	4		6	2.4	R	.28
. 2-8	Dec. 19	7.0	1	26.59	.	44	38.1	R		12	3.2		13	14.20		İ	6	0.3	R	-11
	21	7.4	47	26.21	·	44	39.1	M		17	3.5		13	14.26			6	3.2	R	12.

Separate Results of Madras Meridian Circle Observations in 1877.

	Numb and Date		Magnitude.	h	Asce 18	Rig Insion 1877.	ht a s.	No. of Wires.			Polar Ince 7.	Observer.	Nu 8 D	mben and		Magnitude.	M A	Lsce	Right dusion 177.	No. of Wirea	5	Dist 18	Polar tance 77.	
	90				43 <i>I</i>	Grid	ani	υ 5					9	6				53	Erid					
	Jan.	4	4.0	1	4 19	24	77		124	18	14.3	R	1	. 30	1	4·o [					1			
	_	5	4.0		19					18	12.0			31		4-0	4	32 32			.   10	-		- 1
		.5	4.0		19		85	5		18	14.0	R	Feb		- 1	1.4		32		.	1	3:		
-		.0	4.0		19	24	71	]		18	13.2	B	-	3	4	1-4		32	0.	- 1	-	32 32		- 1
	91				74 :	Tau	ri €				· · · · · ·			16	4	1.0		32	••	1		32		
	Jan.	6	•••	4	21	26`	09		71	5	38.6	1.	97	7			5	4	Erida	ni.				•
		8			21	26-	ለ <del>ን</del> -		-	5	40.3	B R	Jan.	18	1 4	0 [	4	35	3.67	1	109	) F4		. 1
	1	1	•••		21	26				5	39.1	R	1	22	4	.0		35	3.76	1	100	54 54		_   _
	1		•••		21	261	18			5	39.6	R		23	4	0		35	3.79	1		54		
	1 2	- 1	•••	ì	21	26				5	40.1	R		25	4	.0		35	3.74			54		. 1
	2		•••		21	25.5				5	40.2	R	Feb.	12	4	•5		35	3.52			54		
	Feb.	- 1	•••		21 21	26·1				5	39.6	R	98				-			·				
		3	,		21	26.1		"		5	39.8	M					ð	A	uriga	·				
l	10	)			21	26.0	- 1			5 5	39.5	М	Jan.		"	.	4	48	59.07		57	1	50.8	R
-				<u>-</u>							39.6	M		23	"	.		48	59.05			1	50.3	
	92		87	Tar	uri d	a, A	ldel	baro	ın.					25 27	"			48	59.04			1	49.8	R
	Jan. 5	: 1		4	28	51.7		ı			1		Feb.	-	"	.		48	59.06			1	50.0	R
	12			_	28	51.8		` [		44	22.2	B	- 00.	6	"			448 448	59·15 59·04	•••		1	50.7	M
1	Feb. 5	-			28	51.8				44 44	22.6	R		7	"	i		±0 48	59.02		ĺ	1	50.0	M
	6				28	51.9					22.6	M		9		.		48	59.15			1	51·4 51·2	M
							<u> </u>							10		.		48	59.08			1	50.9	M
	93			4	8 E	rida	ni z	,						12				48	58.93			1	51.5	M
J	an. 18		40	4	30	10.4	١١	. 1	93 8	36	22.0 (	R		14		.	٠,	<b>4</b> 8	58.91			1	50.4	м
	23		40			10.38		- 1			22.8	R R		16	•••	<u>.                                    </u>		48	59.07			1	50.5	М
	25	- 1	4.0		30	10.26	3	.				R	99				0	7.						
יתר	27 eb. 9	- 1	40			10.56		.	8	36	20.1	R			•	,			poris	€				
_ P	ев. 9		4.6		30	10.40	)	.	3	36	20.1	М	Jan.	30 ·	•••	٠   ١	5		15.12		112	<b>3</b> 2	16.7	R
•	94			52	F.,	dan	·	,				-	Feb	ას ვ	•••				15.24	•••		32	15.0	R
		1.	1									- 1	200	8				_	15.16			<b>3</b> 2	16.0	M
U ZL	n. 19 24	- 1	3.2			46 · 26		12	0 4		4.6	R		12	•••			_	15.25	***			14.8	M
	24 26	1	3.2			46·31	. 1	1		8 5		R		13					15·30   15·32				15.1	M
	29	1	5.5			46·12 46·22	1					R		16		- 1			15.20			92 39	15·8 15·9	M
Fe	b. 10	[	.8			16·17						R M	100										10 9	М
g	5				ת.	radi	·						Jan.	18 1	3.0				idani 1911		3 _			
			1					,						22	3.0	- 1			48·12 48·13		95		50.0	R
Jar	ı. 1 4	i				0.17		14				B		23	3.0	- 1			48.18			14	49.7	R
	4 22	3.	i		31 2					7 5		R		25	3.0	- 1			48.25				49·2 48·8	R
_	40		9		1 2	0.26			- 18	8	0.8	R	Feb.	9	3.6				48.14				49.3	R M

	Number and Date.	Magnitude.	Mean Right Ascension 1877.	, of W	D	an Pristan 1877	ce	Орзегуег.	Number and Date.	Magnitude.	As	nı l cen 187 m.	Right sion 7.	No. of Wires	Di	in Postan 1877.	ce	Observer.	
	101		69 Eride	ani l					107		24	Oi	rionis	γ		•		_	
	Jan. 19 24 26	4·0 4·0	5 3 15 <sup>-</sup> 3 15 <sup>-</sup> 3 15 <sup>-</sup>	53	98	54 54 54	46·7 48·4 50·2	R R	Jan. 1	2·0		18 18	32·15 32·12		88	45 45	44·8 45·2	R R	
	27 Feb. 10	4·0 4·6	3 15°	73		54 54	47·5 47·8	R M	108		R	. <i>F</i>	P. L. 4	0.	Market P. M. Nacces St. S.				
	102		ı Doradûs	, Var.	1.		addinadaline on		Jan. 18 25			22 22	45·81 45·65	3	4	52 52	19·1 17·5	R R	
	Jan. 1	9.5	5 5 54	1	151	57	51.1	R	Feb. 2			22	46.86	3		52	18.3	M	
	4 5	3.8 3.6	5 54° 5 54°			57 57	50·8 48·1	R R	7		!	22 22	46 04 46 13	3 3		52 52	18·6	M M	
54.26	8 10	9.8 9.8	5 54 5 54	型		57 57	49·4 50·7	R R	10			22 22	46.60	3		52 52	16 <sup>.</sup> 5	M M	
20	13 15	9.8	5 54· 5 54·	2		57 57	49·8 50·2	11 11	Dec. 29			22	43:33	2		52	18.0	M	34.93
	103	1	9 Orionis	B, Rig	el.		Table and Marie		109		1		poris .		,		1		
	Jan. 27		5 8 37	·59	98	20	46•1	R	Jan. 4 5	4.0	1	22 22	58·34 58·48		110	51 51	33·7 31·3	r r	
	31 Feb. 14		8 37	- 1		20 20	42·9 42·1	R M	8	4.0		22	58.44		<u> </u>	51	32.7	R 	58.41
	104		Ano	n.	•	••	-'		110	34	l Ori	on	is δ,	Var	. 1.				
\$3.57 •71	Jan. 13 15 16	9·2 9·2 9·2	5 10 53 10 53 10 53	68	152	11 11 11	7·9 6·6	R R	Jan. 24 Feb. 9 13			25 25 25	43·42 43·35 43·40		90	23 23 23	29·3 29·8 28·9	IL MI M	
	18 Feb. 13	9·3 9·2	10 53	71		11	6.8 4.6 6.8	R R M	111		1		lumbo		<u> </u>				
1	105	1	20 Orio						Jan. 1	4.0		26 26	50.53 50.63 50.43		125	33 33	41·8 44·4	R R	50.55
	Jan. 22 23 24	4·0 4·0	5 11 38 11 38 11 38	·14	96	58 58 58	44·2 43·1 41·2	R R R	12 13	4:0	ı	26 26	50.44 50.44	•••		33 33	41·8 42·7	R	. 3,5
	25 Feb. 9	4.0	11 38	ľ		58 58	42·5 43·1	R	112	1	11	L	eporis	a	,				
	106		112 Tai		1			1	Jan. 26 29		1	27 27	18·35 18·38		107		42·7 42·9	R	
20,03	Jan. 17		5 18 31 18 31	·0%	61	. 29 29	56·7 54·2		113		<b>4</b> 4 <i>0</i>	rio	nis ı-	-ls	t.			m (m) many	
	28 24		18 31			29 29	55·4 54·3		Jan. 5 15	3-5 3-5	1	29 29	24:68 24:86	4	95	59 59	29·9 32·1	R	
	29 Feb. 8		18 31 18 31	·07	ı	29 29	55·2 54·4	R	16	3·5 3·5		29 29	24.80			59	32·0 33·3	R	24.95

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean I Ascen 187	sion	No. of Wires.	Di	n P stan 1877	ce	Observer.	Num an Dat	d	Magnitude.	A	187	Right asion 7.	No. of Wires.	) D	an F istai 1877	olar ice	Observer.
	114		<b>4</b> 6 0	rionis	€.					12	0		β	Ce	olumb	æ.			(ar ar) (a ma	
	Jan. 27	]	5 29	58.29	ļ	91	16	56.6	R	Jan.	<b>5</b> .	3.0	5	46	37.13	6	125	48	56.8	R
	30		29	58.32			16.	57:0	R		8	3.0		46	37.44			48	58.2	R
	31		29	58.32		<u> </u>	16	56-2	R		10	3.0	]	46	37.35	•••		48	56.6	R
	115		ß D	oradú	ls.					12	1 5	8 Orio	nis	a,	Var.	l, <i>B</i>	etelg	eux		
	T	4.0	- 00	00.70	)	1	•		ſ	Jan.	-		5	<b>4</b> 8	30.76		82	37	2.3	R
	Jan. 4 18	4.0	5 82	33·12 33·35	•••	152	34 34	16.7	R.	<b>,</b>	25			<b>4</b> 8	30.80			37	2.7	R
	23	40	32	33.34	•••		34	17·5 14·8	R R	Feb.	2			48	30.67			37	1.9	M
	25	4.0	32	33.28			34	14.4	R		7	<u> </u>	<u>l</u>	48	30.90			37	2.5	M
	Feb. 14	4.0	32	33.37			34	15.7	м	12	•		34	L 4	urigæ	R				
									<u> </u>						.wrtyce H	. <b>,</b>	,	'		
	116		48 Orio	nis σ	—le	st.				Jan.		2.0	5	50	30.63		45	4	4.9	R
l	~	1	1		,	,			,		16	2.0		50	30.18			4	2.2	B
	Jan. 12	4.0	5 32	34.13		92	40	23.4	R		18	2.0	1	50	30.08			4	3.3	R
	13 19	4·0	32 32	34.21			40	22.7	R		23	2.0	J,	50 	30.12	<u> </u>	<u> </u>	4	2.7	R
	22	4.0	32	34·34 34·31		] .	40 40	22·7 22·8	R	12	3		1	6 <i>I</i>	eporis	sη				
	117		<b>50</b> (	rionis	٠,					Jan.	15	4.0	5	50	47.93		104	11	30.8	R
	117		50 (	TOTELS	3 5					1	17	4.0		50	48.19		101	11	30.9	R
I	Jan. 1	2.0	5 34	33.07		92	0	33.8	R		22	4.0		50	47.90	4	İ	11	30.9	R
l	10	2.0	34	33.04		ł	0	34.9	R		24	4.0		<b>5</b> 0	48.16		1	11	28.4	R
	15	2.0	34	32.90			0	35-5	R	Feb.	9	4.4		50	48.04			11	30.7	M
	17 Feb. 10	2.0	34	33.04			0	33.7	R						.7 Z					
		2.0	34	33.02			0	33.8	М	12	4		γ	u	lumb	æ.				
	118		13 <i>1</i>	eporis	s ~					Jan.	4	4.0	5	<b>5</b> 3	10.17		125	17	53.6	R
		1		_							5	4.0		53	10.32			17	52.3	R
	Jan. 4	4.0	5 39	19.84		112	29	25-2	R		13 19	4.0		53 = 2	10.25			17	50.4	R
	5	4.0	39	19.90	•••		29	23-3	R	Feb.		4.0		53 53	10.34		l	17	51.0	R
	10 16	4.0	39	20.09	•••		29	25.1	R	- 65.		1 33	<u> </u>		10.34		<u>L</u>	17	50.2	M 
I	16 Feb. 9	4·0 4·3	39	20·01 19·98	•••		29	22.6	R	12	5		R	, <u>r</u>	P. L. 4	2				
		1 30	1 98	TA AQ		]	29	23-2	M			ı				J.				
1			<u>د</u> م د							Jan.					7.92 46 <del>:65</del>	3	3		14.2	R
	119		53 (	Orionis	Sκ					P1-1	27		1	57		3			15.8	R
	Jan. 1	2.8	5 41	55.19	l	99	42	51.6	10	Feb.	14			57	48.93	3		14	16.4	M
	8	3.0	I .	55.29	l		42	54-4	B				ъ.	<b>-</b>						
	15	3.0		<b>55</b> ·28				58.9	R,				K. ,	۴	L. 43-	–s. <sub>Į</sub>	).			
	17			, ,																

Number and Date.	Magnitude.	h.	Iean Ascei 187 m		No. of Wires.		ean I Dista: 187	Polar nce 7.	Observer.	Number and Date.	Magnitude.				No. of Wires.		an I ista 1877	Polar nce 7.	Орвегчег.	
126			67 (	Orioni	ς ν					132			ν.	Argûs	•					
Jan. 18		6	_	32.89	1	75		7.8	R	Jan. 17	3.0	6	33	59·7 <b>2</b>	1.	133	5	21.5	R	
22		Ì	0	33.06	1	1	13	7.3	R	18	3.0		33	59.74		1	5	22.0	R	
26			0	32.85	1		13	7.8		19	3.0		33	59-77		ì	5	20.9	R	
Feb. 2			0	32.99	1	Ì	13		M	22	3.0		33	59.70		ł	5	24.5	R	
3		Ì	0	32.92			13		M	Feb. 12	3.6		33	59.80			5	20.9	M	
15		1	0	32.94	]	<u> </u>	13	6.9	M	133		-! T.	7707	nde 12	0000	<u>/</u>	**********			
127		13	Ge	minor	um	$\mu$				Mar. 16	ĺ	1 6	10G1 35	22·71			••		ı	
Jan. 30		6	15	31.11		67	25	31.8	R	17		"	35	22.81	i	83	32	20.2	R	2
Feb. 15			15	31.22			25	31.8	M	20	7.0	'	35	22.87			32 32	19.9	R	
128		1 (	ani	s Maj	oris	۲	-					<u>L</u> .				! .	02	21.3	R	
Jan. 13	2.5	6		35.4₹		120	0	36.8	R	134		. ĐJ	l Ue	phei 1	чev.					
17	2.5		15	35.27		120	0	36.8	R	Feb. 24		6	42	15.93	3	2	46	2.6	M	
24	2.5		15	35.63			0	37.0	R	27			42	16:78	3	İ	46	1.4	M	
26	2.5		15	35.39	1		0	37.1	R		,						· •			$\parallel$
Feb. 13	2.9		15	35.42	i		0	36.7	M		51	Cez	hei	Hev	-s. <sub>1</sub>	υ.				
		<u>-</u>				<u></u>				June 28		6	42	16.07	2	2	46	4.1	м	
129		2 C	anis	: Majo	ris	β				July 4		1	42	15.20	2		46	4.2	м	
Jan. 16	2.5	6	17	16.76		107	53	45.1	R	Sept. 8		1	42	16.06	3	]	46	6.0	M	
19	2.5		17	16:80			53	44.9	п								-			
25	2.5		17	16.74			53	41.6	R	135	1	13 (	anı	s Maj	oris	κ				
29	2.2		17	16.82			53	47.5	R	Jan. 17	4.0	100	45	4 14·54~	1	122	22	r. 0	۱	1
Feb. 10	2.6		17	16.77			53	46.9	M	19	4.0	1	45	14.67		123	22	5·3	R	14.
130		3 /	Cani	s Ma	ioni					23	4.0		15	14.65			22	4.1	R	
	1	1		່າ	uris	,			,	26	4.0	1	1.5	14.62			22	4.9	R	
Jan. 15	4.0	6	17	36.89		123		33.1	n	Feb. 10	4.2		15	14.72		l	22	5.4	M	
18	4.0		17	36.85			22	30.9	R	*** * * * *			-							
$\frac{22}{23}$	4.0		17	36.84			22	29.8	R	136			$\tau_{A}$	Argûs.	,					
20 Feb. 12	4·0 4·5		17	36.83			22	30.4	R	Jan. 18	4.0	6	46	52.99		140	28	8.4	p	
- CU. 12	-94)	<u> </u>	17	36.96	•••		22	31.9	м	22	4.0		-16	52.85		- 40	28	9-0	R R	
131		24	Gen	ninori	ım. o	,				25	4.0		46	53.13			28	7.2	R	
Jan. 24	1	1			1	1				30	4.0		46	52.98			28	7.5	R	
25	•••	6	30	36.28		73		51.5	R	Feb. 12	4.0			53.11			28	8.3		H
29			30	36.32	•••		29	50.7	R						!					
31			30 30	36.30			29	52.3	R	137	. 1	6 Ca	nis	Majo	ris e	0 <sup>1</sup>				1
Feb. 6	***	1	30	36.30			29	51.8	R			,		,	1					il
8	•••		30 30	36·25	•••		29	52.2	M	Jan. 24	4.0	6		1.48	•••	114		53.6	R	
15			30	36.35	•••		29	51.2	M	27	4.0		49	1.59	•••			55.0	R	
17			30	36·29 36·35			29	52.4	M	29	4.0		19	1.67				53.7	R	
27	•••		30	36.34			29	53·0 53·1	м	31	4.0		19	1.71			1	58.2	R	
	***	1	UU	OU 04	•••		29	00.1	M	Feb. 13	4.5		40	1.88			-	امروح		1

16.74.

Separate Results of Madras Meridian Circle Observations in 1877.

Number and Date.	Magnitude.	Me A	an R scens 1877 m.	light sion '.	No. of Wires.	Di	n Poistan 877.	olar ce	Observer.	Numl and Date	1	Magnitude.	M A	ean scen 187 m.	7.	No. of Wires.	D	an Pristan 1877	ce	Observer.
138	2	21 (	ani	s Maj	oris	€				144	4	3	1 C	ani.	s Maj	oris	η			
Jan. 23		6	53	47.50		118	48	22.0	R	Feb.	2	2.6	1 7	19	13.2	۱	119	3	50.9	,
Feb. 5	•••		<b>53</b>	47:39			<b>4</b> 8	20.7	B.	1.60.	5	2.7	<b>'</b>	19	13.67		119	3	51.1	M
14	•…		53	47.58			<b>4</b> 8	21.7	M		6	2.3		19	13.73		ŀ	3	50.9	M
Mar. 17			53	47.44			48	21.0	R		10	2.5		19	13.68		Ì	3	51.2	M
139		22	Can	is Ma	jori	s.				Mar.	15	2.0		19	13.67			3	51.0	R
T 10	ا مرد	ء ا	F.C.	40.00	l	117	45	ا میمو			•									
Jan. 18 24	3·5 3·5	6	56 56	49·00 49·09		117	45 45	39.0	R R	14	5		3 C	anis	s Min	oris	β			
24 29	3.2		56	49.24			45	35.1	R	Jan.	93	3.0	7	20	28.66	1	81	97	50.4	
30	3.5		56	49.19			45	36.6	B	oan.	23 24	3.0	'	20	28.66		01	27 27	50·4 47·0	R
Feb. 12	3.9		56	49.04			45	36.6	M		25	3.0		20	28.70			27	48.5	R
	1				<u>'</u>	<u>.                                    </u>					26	3.0		20	28.61			27	46.6	R
140			Tayl	or 28	13.					Feb.		3.4		20	28.86			27	48.1	M
Jan. 19	8.4	6	57	20.26		94	5	15.3	R	,							·		'	
22	8.4		57	20.23			5	16.6	R	146	3			σ	Argû	s.				
25	8.2		57	20.43			5	16.3	R				,		-					
26	8.5		57	20:36	<b> </b>		5	16.7	R	Jan.	23	4.0	7	25	19.62		133	3	11.9	R
Feb. 13	8.4		57	20.42		Ì	5	15.7	M		24	4.0		25	19.71		l	3	13.1	R
	<u></u>					<u>,</u>					25	4.0		25	19.69			3	12.2	R
141	2	4 C	anis	Majo	ris	02				!	26	4.0		25	19.61		1	3	13.3	R
T 0#	(	1 .		×0	ı	1				Feb.	14	4.3	<u> </u>	25	19.63			3	13.7	М
Jan. 27 31		6	57	53.17		113		16.8	R											
Feb. 2			57 57	53·17 53·32				18.4	R	147	7	66 <i>G</i>	iem:	inor	um a	2, C	asto	r.		
3			57 57	53.18			39	16.4	M											
17			57	53.83			39 39	16·4 15·9	M	Feb.	19		7	26	45.01		57	50	35.6	M
	,	<del>'</del>				<u> </u>		15 5	М		22			26	45.01		}	50	37.3	M
142		25 (	Cani	s Maj	ioris	δ											·			
T 10	1	٠		00.07	(			1		148	В	10 <i>Ca</i>	nis	Mir	ıoris	a, P	rocy	on.		
Jan. 19 22		7	3	23.31	1	116		1	R								J			
23			3 3	23.24			11	58.1	R	Feb.	7		7	32	51.72		84	27	39.6	М
23 24			3	23.19			11	58.1	R	1	13			32	51· <u>67</u>			27	40 4	
Feb. 14			3	23·47 23·38			11	58·1 57·5	R		16			32	51.81	]		27	38.0	м
	1					1	11	0/ 0	W		17			32	51.74	]		27		M
143			$\pi$	Argû	3.						19			32	51 74			27		м
Tan. 10	1 0.0	۱ ـ	10	44.00	.1	1			1		20			32				27		м
Jan. 19 23	3.0	7		47.86		126			R		22			32			1	27		M
24	3.0			47.76				40.4	R		23			32	-			27		М
25	3.0			47·82 47·83				38.6	R	Mar.				32			1	27		R
Feb. 9	3.5			47.70		]	52		R		17			32		1		27		R
1 OU. 3	100	1	12	4770	1	1	52	40.3	M	l	19			32	51.80		1	27	40.1	R.

Number and Date.	Magnitude.	h.	Tean Ascer 18		No. of Wires.	M <sub>e</sub>	an I Dista 1877		Observer.	Number and Date.	Magnitude.		sce	Right nsion 77.	No. of Wires.		an P istar 1877		Observer.	
149	S	Gen	nine	orum,	Va	r. 3.				155			6	Caneri			~			
Jan. 26	10.4	7	35	20.82		66	14	2.9	R	Mar. 15		7	55	57.67		61	51	44.8	R	
27	10.4		35	20.96		1	14	2.6	R	16			55	57·6€			51	44.2	R.	57.
29 30	10·5		35 35	20.75			14	2.9	R	20			55	57·7 <del>0</del>			51	44.9	R	
	103			20.74		<u> </u>	14	2.2	R	156			۴	Argûs						
150	78 <i>(</i>	Gem	ino	rum B	3, Pa	ollux	:.				,		5	ari y «s						
Feb. 9		-	0 H	48.00	i	1 10	40	ا م.مد		Jan. 26	2.2	7	59	15.52		129	39	24.3	R.	
12	•••	7	37 37	47.20		16	40 40	43·9 44·5	M	29	2.5		59	15.65			39	24 1	R	
24			37 37	47·31 47·23	•••		40	43.1	M	30	2.2		59	15.80	•••		39	24.4	R	
26			37	47.14			40	42.5	M	31 Feb. 14	2·5 2·7		59 59	15.72			39	22.7	R	
27			37	47.32			40	43.0	M	2 00. 19	1		-00	15.69	···		39	27.0	M	
Mar. 16			37	47:31			40	43.1	R	157			15	Argûs	3 1					
19	,		37	47·1 <del>6</del>			40	43.3	R		ı	1 .		_	1	- ا			.	
										Feb. 20 23		8	2	18.26	•••	113	57	4.6	M	
151			7 /	1rgûs	ξ					23 24			2	18 34 18 33			57	29	М	
Jan. 24	٠ - ١			<b>m</b> . no	,	(	•			24 26			2	18 49			57 57	40	M	
Jan. 24 25	3·5 3·5	7	44	7.28	•••	114	33	8.0	Я	28			2	18.38			57 57	4.0	M	
26	3.2	ĺ	44 44	7·28 7·20		1	33 33	7.1	B	Mar. 17			2	18.43		[	57	2.5	M R	18.1
29	3.5		44	7.17			33	8·1 7·5	R	19			2	18:42			57	2.5	R	18.2
Feb. 15	3.9		44	7.22			33	7.8	м			l			····					
	<u> </u>	<u> </u>								158		γ	Ar	gûs—S	2nd	•				
152			R.	P. L.	49.					Jan. 26	2.0	8	5	44.36		136	58	80.6	R	
Jan. 31	1	7	47	19.01	3	1 -	9 =	98.47		29	2.0		5	44.42			58	29.8	R	
Feb. 20		<b>'</b>	47	13·81 13·87	3	5	35 35	35·7 36·0	R	30	2.0		5	44:42			58	31.2	R	
22			47	14.35	3		აი 35	36.6	M	31	2.0		5	44:50			59	29.4	R	
					J	<i></i>		}		Feb. 9	2.6		5	14:4()			58	30.6	м	
153		7	Tayl	or 331	18.					159			€ .	Argűs.						
Jan. 24	4.0	7	49	41.17		137	46	59.5	R	Jan. 31	2.0	1 8	19	59·19		149	æ	EQ.0	_	
25	4.0		49	41.21			46	59.4	R	Feb. 2	2.3	"	19	59 37		140	6 6	52·3 51·4	R	
26	4-0		49	41.13			47	1.3	R	5	2.6		19	59.27			6	52.1	M M	
27	4.0		49	41.12			47	0.3	R	6	2.4			59.19			_	58.1	M M	
Feb. 9	4.9		49	41.04	5			59.8	M	9	2.4			59.36				53.3	M	
7 -		-		Ame 1	'											<u>'</u>				
154	, ,	r		Argûs	•					160		8	33 <b>(</b>	Caneri	η					
Jan. 29	4.0	7		38 84		142	39	9.8	R	Feb. 10		8	25	85.64		69	8	81.2	м	
30	4.0			38 90			39	11.1	R	17	•••			35.63			8	32.6		
31 Tob 0	4.0			38 95			89	8.8	R	27				85.28			8	31.2		
Feb. 2	4.3			39.00			39	10.4	M	Mar. 15	•••			85.71			8	88.9	R	
16	41		53	39.09	•••		39	10.6	M	23	•••	1	25	85.74			8	32.4	R	

47·18 •21

Separate Results of Madras Meridian Circle Observations in 1877.

ſ		<u> </u>	Maar	n Right	es.	Mea	n Po	lar		<del></del>		۱ ،	Me	an I	Right	.98.	Me	ın P	olar (		
.	Number and	itud	Asc	ension 877.	of Wires.	Di	stan. 1877.	ce	Observer.	Num an	d	itud	A	scer 187	sion	of Wires.	Di	istan 1877	ce	Observer.	
	Date.	Magnitude.	_	m. s.	No o	0	,	"	Obse	Dat	e.	Magnitude.	h.	n.	. s.	No. o		,	,,	Obse	
	161			Anor	<u>'</u>					168	 3	Taylo	r 39	930-	lst		Cari	inæ`	).		
		1 0.0	ه ه ا	1		101	90	27.3	١ ـ ا		6	5.5			57.68	·	148		17.9	м	
28.01	Mar. 26 27	9.8	ŀ	36 28·0 <b>2</b> 36 28·10	1	81	30 30	27.6	R		7	5.0		53	57.78			<b>4</b> 5	20.2	м	
-22	28	9.9	1	36 28.24	. 1	i	30	28.5	R		8	4.9		53	57.74			45	19.0	м	
	162	<u></u>	<u>'</u>	o Argû	s.	<u></u>				Mar.	12 15	4·7 4·0		53 53	57·86 57·76			45 45	20·7 19·5	M R	
			,	_	,	1	••			169		Taul	01e 3	040	)—(b²	Car	rin m	`			
	Feb. 5	4·0 4·3	1	36 46·17 36 46·06	. 1	142	29 29	9·0	M	1			,						40 = 1	i	
	7	4.4	l .	36 45·99	1		29	9.7	м	Feb.	13	4·8 4·6	8		22.95	•••	148		49.5	M	
- 1	8	4.2	1	36 46·1	1		29	9.8	м		14	4.9		56 56	23·12 22·92	•••		36 36	49·5 49·6	M	
	Mar. 15	4.0	1	36 46.11	1		29	10.2	1		15	4.9		56				36	49.9	M M	
•		<u> </u>				<del>'</del>			<u>-</u>	Mar.		40		56	23·13 23·90 23·03			36	48.7	R	22.90
	163			Anor	ı.																1
24.65	Mar. 19	9.5	8 1	87 24·63	]	81	36	52.3	R	170	D .	•		λ.	Argûs	•					
ľ		<del>'</del>	<del>'</del>			<del>' .</del>			<u></u>	Feb.	5	3.4	9	3	28.41		132	56	13.1	M	
1	164		11	l Hydro	æ e						6	3.3		3	28.36			56	12.9	M	
1	-		1		_1	ا م	_		1		7	3.6		3	28.49	•••		56	14.0	M	
15.68	Feb. 19	"		40 15:75	561	83	7	51.1	М		8	3.4		3	28.38			56	12.9	М	
15.60	Mar. 21		1	40 15:6	.	1	7	54.3	R		9	3.3		3	28.41	•••		56	13.7	M	
	Apl. 10		1	40 15·6:		}	7 7	52·2 58·2	R	17:	1		7	'ayl	or 40	28.					
		•		0.4		·			<u></u>	Feb.	16	8.3	9	6	34.04	4	132	46	6.2	м	
	165			δ Argi	is.						_		<u> </u>				<b></b>				
	Feb. 10	∫ 2.9	8	41 18:50	0 [	144	15	30.1	M	17:	2			ß	Argûs	ł.		Ţ			
	13	8.0		41 18.8			15	29.1	M	Feb.	7	1.2	9	11	50.72		159	12	43.0	M	
	14	3.2		41 18 6	1		15	29.9	M	1	8	1.2		11	50.61			12	4:):9	M	
	15	3.2		41 18.6		1	15	29.5	M		9	1.4	1	11	50.80			12	42.3	М	
j	Mar. 16	3.0		41 18·š	Ĵ		15	29.9	R		10	1.4		11	50.63			12	42.2	M	
			7	R. P. L.	60			****	<u> </u>	Mar.	19	ļ	<u> </u>	11	50.86		<u> </u>	12	40.5	R	\$5.63
	166		,	1. <i>L</i> . <i>L</i> .	00.					17	3			83	Caner	i.					
	Mar. 22		8	49 22 3		5	19	48.7	R	Feb.		j	9	12	6.96	١	71	46	28.4	м	
21-62	28			49 20	4 3		19	48 2	B		22		*	12	6.93		' '	46	29.1	м	
				D 7 00		<u> </u>					23			12	7.03			46		м	
			K. I	P. L. 60	)s.	p.					24			12	6.85	\ <b>.</b>	1	46	28.4	м	
21.72	Oct. 10	1	8	49 20-7	7 2	1 5	19	FO-1			26	·		12	6.79			46	28.7	M	
2-13	16	1	"	49 21:1	$\begin{bmatrix} 7 & 2 \\ 7 & 3 \end{bmatrix}$	l l		50·1	1	1	28			12	6.85			46	28.1	м	
2-61	20			49 21.7				47.0		Mar	. 15			12	6.71			46	29.3	R	
		1	<u> </u>		-10				1		20			12	6.8		1	46	29.1	R	6.81
	167	1	W. B.	. E. VI	II. 1	302.					22			12	6.80			46	27.9	R	
97.41.	Apl. 13	8.5		51 27:0			56	43.9	9   B	Apl.	28			12 12	6·88 6·7 <b>\$</b>		ŀ		28·7 29·0	R	\ \
27.04			1		11				""	- Apr.		1	<u> </u>		0.74	]	<u> </u>	40	25 0	R	174

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean Rig Ascensio 1877.	No. of Wires.	Di	n Pol stanc 1877.	lar e	Observer.	Number and Date.	Magnitude.	As	an R scens 1877 m.	ight ion	No. of Wires	Di	n Postano		Observer.	
	174		· κ Ar	gűs.					179			Ano	n.						
1	Feb. 10	3.5	9 18 18	8.47 5	144	29	10.2	м	Apl. 11	10.0	9	37	48.12	4	79	46	16.7	R	
1	13	3.2		3.55 5		29	9-2	м	12	10.0		-	47.93			46	15.7	R	
	14	3.2	1	8.33		29	8.9	M	14	10.0			47.86				16.6	R	
	15	3.5	18 18	3.41		29	9.7	м	18	10.0			47.78				19.2	R	47.78
	Mar. 15	3.0	18 18	3·40		29	10.2	R	20	10.0		87	47.76	··· <u>]</u>		46	16.7	R	
	175	3	0 <i>Hydræ</i>	a, Var.	2.				180		17	Lec	nis e	•					
		,		ا میر	( 00	_	94.5		Mar. 22		9	38	52.04		65	39	37.4	R	
22.42	Feb. 28		9 21 3	2·49 2·50	98		34·5 34·1	M R	23			38	51.98			89	39.0	R	
32.47	Mar. 20 21		1	~		-	35.1	R	24		ł		52.04			39	40.7	R	
	21			2.56			33.2	R	26		1		52:0 <del>1</del>			39	30.0	R	52.02
	24			2.57		-	35.4	R	28		Ì		5 <del>1 99</del>			39	38.0	R	100
. \$24	27			2.53		-	33.8	R	Apl 2		l	38	52.02			39	37.5	R	
64	Apl. 2		L .	2.65		7	35.6	R	May 23	•••	1	38	52.04	•••		39	37.1	M	
1 67 64	4			2.57		7	35.7	R				1.	on.						
	19		1	2.49		7	35.4	R	181			All	ioie.						
	May 23		21 3	32.63		7	34.9	м	Apl. 17	8.2	9	41	11.56		79	21	19.5	R	
		<u></u>						<u></u>	19	8.3		41	11.66			21	20.7	R	11:59
	176		alo 1	rgûs.					20	8.2	ļ	41	11.46			21	20.3	R	
	176		ΨΑ	17y 115.					21	8.3		41	11.21			21	19.4	R	
	Feb. 12	4.0	9 25 5	1.35	129	5 <b>5</b>	45.0	M	23	8.3		41	11.33		,	21	19.7	R	133
	15	4.2	25 5	1.32		55	43.3	М					_						∦
	16	4.3	25 5	1.43		55	45.8	M	182			υ Α	rgûs.						
	17	4.0	25 5	51.53		55	45.1	M	W-1 15	3.4	9	44	1.73	1	154	30	7:3		1
	Mar. 15	4.0	25 8	51.34	)	55	44.5	R	Feb. 15	3.5	"	44	1.79		104	30	9.1	M	
		***************************************		(		· · · · · · · · · · · · · · · · · · ·			17	3.5		44	1.84		1	30	7.6	M	1
	177		W. B. E.	. IX. 70	8(				20	3.2		44	1.81			30	8.6	M	
			2. 1					,	Mar. 16	3.0		44	1.60			30	5.1	R	1.62
	Apl. 7	8.7	9 33 1	15·71	86	14	57:1	R		.!	1		-		۷			<u>'</u>	
	11	8.8	33	15.75		14	56.5	1	183			24	Leonis	ιμ					
	12	8.8		15.72		14	54.9	1	1 200				_001000	-					
15.87	14	8.8	1	15.85		14	55.3	1	Feb. 22	4.0	9	45	45.87	[	63	24	52.8	M.	1
	18	8.7	33	15.84		14	56.7	7   R	23	3.8		45	45.97				52.7	×	
									24	3.9		45	45.89			24			I
	178		An	ion.					26	3.9		45	45.89			<b>24</b>			
	A 10	1 20.0	100	9.00 1 4	( 50		FA. 4	. 1 -	Mar. 19	3.0		45	45·90			24	52.4	R	45195
3.64	Apl. 10	10.0		3 60 4 3 70	1		50.4		104				7	70			•		1
3.00	13 16	10.0			1		47·2 51·2		184		h	. <i>P</i>	. L.	70.					1
	17	10.0		3.78		51			Mar. 24		1 9	48	37:89	3	) 5	29	<b>-25</b> ∙0	R	ll .
17.0	19	10.0	87	3·70 3·80	1		50.4		Apl. 14		1	48	37:76	3			25.8		37.71
.74	10	1 2 0	1	3 33	J	71		1 **		1	1			(	'	-7			4

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean I Ascen 1877 h. m.	5.	No. of Wires.	•	i Poltane	lar	Observer.	Number and Date.	Magnitude.	h.	n Righ ension 877. m.	No. of W	D	an P istan 1877	ce.	Observer.	
			R. P.	L. 70-	-s.p				- 1	,	ا بر		_	,	(	•	ا م م،		1
	Oct. 4	I I	9 48	87.68	8	5	29	28.5	R	Feb. 24	4.0	10 1			159		43.8	М	
	13		48	37.38	3			27.8	R	28	4.3	1		n=		25 25	40·8 39·8	M M	
		<u> </u>			- 1			-, 0	_	Mar. 20	4.0	1				25	41.0	R	48.65
	185		φ	Argûs						28	4.0	1	0 48		]	25	41.2	R	
	Feb. 17	4.5	9 52	32.68	[	148	58	58-1 (	м	190		R.	P. L	72.					
	19	4.2	52	32.78				58-0	м	Apl. 4	1	10 1	1 29:	23   3	5	7	30.2	R	
	20	4.5	52	32.86			<b>5</b> 8	8-8	м	10		10 1		l l	"	7	29.1	R R	
	22	4.3	52	32.88			58	58-8	м	17			1 29	- 1	1		80.6	R	
32.75	Mar. 16	4.0	52	32.7€	••• ]		58	57.5	R					_!	<u>'</u>			_	
												R. I	P. L.	72—s	p.				ļ
	186		29 I	eonis	$\pi$					Sep. 10	1	10 1	1 29	07 3	5	7	33.1	м	
		1	l	5.				ı		17		10 1			"	7	33.2	м	
4272	Mar. 21		9 58	42.71				58-9	R	27			1 29	1 -	1	7	33.2	м	
٠٢٩	26		53	42.86	•••			59-2	R	Oct. 1		1			ł	7	30.6	R	
	27		53	42.78				58-8	R	6				- 1	ł	7	33.0	R	
	Apl. 4		53	* 1				59.4	R	Nov. 12	•	1	24.	98 3	1	7	32.8	R	.29. 23
	7		53 58	42.76 42.79	•••			58 7	R	<u>'</u>		<u></u>			<u>'</u>			-	
78	13		53	42.78	•••			59·1 59·4	R.	191		41	Leon	is $\gamma^1$					
'77	16		53	42.77	•••			59.8	R R	Mar. 26		10 1	3 11.	90 l	69	32	11.6	_	
	20		53	42.77	•••			59.4	R	Apl. 5	•••		3 11.	1	1	32	11.0	B R	
.71	23		53	42.78	•••			59.3	B	7	•••		3 11.		1	32	10.9	R	
-		4	1			<u> </u>	-	00 0		18		1	3 11.		1	32	13.5	B	11.32
			0 7		n	7				21	•••	1	3 11.	승		32	12.2	B	128
	187	ō	32 Leon	is a, 1	Kegi	uus.				27		1	3 11	2		32	11.5		33
	Mar. 24		10 1	49.17		77	25	56.9	R.	<u> </u>									
	27		1	49 21	•••		25	55.1	R.	192	•	34 Ur	sæ M	ajori.	sμ				
	Apl. 4		1	49.11			25	55.1	R		í	1		1	1		1		
	7		1	49.18			25	56.2	R	Feb. 27	3.7	1	4 59	61	47	52	56.5	M	
	12		1	49-18			25	57.4	R	Mar. 16	3.0	ì	4 59	7 1	1	52	53.7	R	59.61
	17		1	49-21			25	<b>56</b> ·8	R.	19	3.0	1	4 59	- 1	1	52	56.3	R	.67
	May 32		1	49.10			25	56.6	м	21 22	3.0	1	l <b>4 5</b> 9 l <b>4 5</b> 9			52	55·4 56·1	R	
											100	Τ.	14 99	04		52	90.1	K	
	188			elorun						193		42	Hyd	ræ μ					
	Feb. 19	4.7	10 9	34.61		131	80	48.4	м	Feb. 22	4.3	10	20 8	·48	. 106	12	32.6	ж	
	20	4.7	9			1		48.2	M	23	4.8	1		·52	1	12		м	Į.
	22	4.2	9					48.3	м	24	4.5	1		87	.		82.8	м	
	23	4.6	9		•			47 2	M	26	4.6			· <b>4</b> 1		12		M	l
34.53	Mar. 19	4.0	9	84-62			30	47:1	B	Mar. 15	4-0		20 8	·56	.	12	81.2	R	1

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Asc 1	n Right ension 877.	No. of Wires.		n Postane 877.		Observer.	Number and Date.	Magnitude.	Me A h.	an Facen 1877 m.	sight sion 7.	No. of Wires.	Di	n Postano		Observer.	
	194		4'	7 Leonis	ρ					199 Mar. 21	10.5	10		10 <b>n</b> . 50-76 [		81	48	21.2	R	50.77
20.174	Mar. 28		10 5	26 20·0 <b>5</b>		80	3	40 · 4	R	22	105	10		50.75		OI	-	21.3	R	**   *
	Apl. 5		9	26 20.01			3	39.0	R	24	10.5		43	50.71			48	22.4	R	
- [	11		1	26 19.99			3	39.1	R	26	10.5		43	50.76			48	22.3	R	75
15%	13			26 20·07 26 20·01			3 3	40·5 40·3	R	28	10.5	)	43	50.81			48	19.9	R	177
19.96	16 19			26 19·97			3	41.8	R	200		2	[ערים]	or 49	1.5					
// //	21			26 20.0%			3	40.1	R		۱		_	6.97		105	••	1		]
.03										Mar. 20	8.5	10	47	6.94		135		51.1	R	
	195			θ Argûs	•					201	4	18 <i>U</i>	rsæ	Majo	ris	в		,		
	Mar. 21	3.0	10	38 3402		153	45	2.9	R	Mar. 15		1.0	54	24:37		32	57	32.0	R	1.8°
34.03	26	3.0		žote ze		l	45	1 '8	R	19		Ì	54	24.34			57	31.2	R	24, 42
.10	27	3.0		38 34:25 34:25			45	1.6	R	20			54	24·14) 24·17			57 57	32·4 30·2	R R	.21
./3	28	3.0	1	38 34 <del>3</del> 2			45	1.6	R	21 22			54 54	24:11			57	31.2	R	
.\8	Apl. 2	3.0	<u> </u>	38 34·25	]	<u> </u>	44	59.5	R			<u> </u>								,
										202		•	33 <i>I</i>	eonis	χ					
	196			$\mu$ Argû	s.					Apl. 10	1	10	58	40.31		81.	59	58.3	R	
	Feb. 27	3.5	[10	41 29:00		138	46	15.9	M	11			58	40.28			59	58.4	R	
	28		1	41 29.06	1		46	15.1	M	14			58	40.31			59	58.6	R	
	Mar. 15	3.0		41 28.91			46	13.4	R	17		ļ	58	40.34			59	59.7	R	
28-96	16	3.0	1	41 28:81			46	13.6		20			58	40.23			59 59	58.6 58.8	R	10.24
	20	3.0		41 29 07		<u> </u>	46	12.4	R	23 26			58 58	40.34			59	59.1	R R	128
										30			58	40.28	\		59	5S·9	R	29
	197		5	3 Leonis	s l.					May 5		ľ	58	40.35	ĺ		59	59·O	M	.26
		ı	1		1	ı			1		<u>'</u>	1	1 0	rateri	· R					
	Apl. 5		10	42 47:52		78	48	16.6	1	203	1	1				1	_			
	10	•••		42 47 43		İ	48	16.4	1	Mar. 19	4.0	11	5	30·58 30·5 <del>0</del>	i	112	9	15 <sup>8</sup>	R	36.57.
	12		1	42 47 50	7		48 48	15·6		20 21	4.0		5 5	36.48			9	15.8	R	''
47.47	14 20			42 47:40			48	16.3		24	4.0		5	36.42	1		9	16.5	R	
. 40	26			42 47.41	)		48	16.0	1	Apl. 2	4.0		5	36.62	1		9	14:2	R	161
,	28			42 47.42			48	14:0								<u>!</u>				
					J., .	1				204			68 .	Leonis	δ					
	198			ν Hydr	æ.					Apl. 12		111		33.86		68			R.	
		,	,	-		,			í	14			7	88.88			48	11.0	R	33.84
33.48	Mar. 19	4.0	10	43 33.49		105				18			7	33.02		}	48 48	8·4 9·5	R	1
	23	40	1	43 33:38			32			21 27			7 7	33·97			48 48	8.7	R	1
•41	27 Apl. 2	4.0	1	43 33·44 43 33·45			32 32			30			7	33.96			48	8.2	1	.93
. 44	Api. 2	4.0		43 33.54			32		R	May 8			-	34.00			48	8.7		1
- 1		1 30			- 1	<u> </u>					1				1					_U

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean Ri Ascensi 1877.	ion	$\mathbf{Dis}$	n Postano	e ·	Observer.	Number and Date.	Magnitude.	Mean I Ascen 187	sion	No. of Wires.	$\mathbf{D}_{\mathbf{i}}$	n P stan 1877	.ce	Observer.	
	205		70 L	eonis θ					211		91 /	Leonis	υ				_	
47-04	Mar. 22 23 26	3·0 3·0 3·0	7 7	46·80 46·79 47·03	73	53 53 53	54·1 53·6 54·7	R R R	Apl. 16		11 30 30	39·01 39·12		90	8	42·2 40·9	R R	
.03	28 Apl. 4	3.0 3.0	7	47·03		53 53	55·8 56·2	R R	28 May 3 8	 	30 30 30	39·03 39·13 39·03			8 8 8	41·0 41·1 42·0	R M M	34.06
11:49	206 Apl. 13		11 13	ateris δ 11·47	104	6	46.2	R	212		27 C	rateris	<del></del> ع					
· 55 · 55	17 18 23		13 13	11·44 11·54 11·52		6 6 6	46·1 46·9 45·9	R R	Mar. 23		11 38 38	31·43 31·40		107	<b>3</b> 9	59·9 59·2	R R	
	26			11.46   entauri.	<u> </u>	6	46.9	R	26 Apl. 2 5		38 38 38	31·4 <b>\$</b> 31·3 <b>\$</b> 31·38			39 39 39	57·8 58·5 58·6	R R	31.41
24.01	Mar. 20 22 24	4·0 4·0	15	24·10 23·99 23·88	143	49 49 48	1·8 0·6 59·3	R R	213	1		lnon.				300		
W) .96	28 Apl. 12	4·0 4·0	15	24-00 23-99		48 48	57·5 57·9	R R	May 26	8.4	11 38	45.97		149	43	8.1	м	
,	208	ı	,	ateris y					214		A	1non.						
44.21	Mar. 21 23 26 Apl. 4	4·0 4·0 4·0 4·0	18 18 18	44·10 44·01 44·23 44·05	107	0 0 0	29 5 29·1 29·1 29·9	R R R	May 9 24 25 28	8·6 9·0 8·9 8·9	11 38 38 38 38	50·97 50·97 51·19 51·17		148	40 40 40 40	12·9 13·8 12·8 11·7	M M M	
	209	1 40	·	<u> </u>	)	0	30.4	R	215	9	4 Leon	is <i>B</i> , 1	Dene	≥b.				
57.32 .32	Mar. 20 21 23 24 Apl. 2	4·0 4·0 4·0 4·0 4·0	26 26 26	57·47 57·38 57·26 57·26 57·35	121	10 10 10 10	38·0 37·8 36·2 34·6	R R R	Apl. 27 28 30 May 4		11 42 42 42 42	47·05 47·08		74	44 44 44 44	25·6 26·5 24·7 25·8	R R R	. 27.11
	210		·	rateris θ	1	10	38.3		216		28	Hydræ	β	2				
26.66	Mar. 21 22 23 26 Apl. 4		30 30 30	26·43 26·46 26·40 26·68 26·51	99	7 7 7	17·4 17·2 17·8 17·7 18·6	R R R	Mar. 24 26 Apl. 2 4	4·0 4·0 4·0 4·0	46 46	-		123	13 13 18 18 13	26·4 24·8 24·3 23·9 26·2	R R R	42.09

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean F Ascend 1877 h. m.	sion	No. of Wires.	$\mathbf{D}_{\mathbf{i}}$	n Postano	ce	Observer.	Numbers and Date	- 1	Magnitude.	. 1	n Riensi 877.	ion	No. of Wires.	Di	n Postano 877.	lar se	Observer.	
	217	X	Virgin	is, V	ar.	LO.				222	i			2 <i>C</i>	'orvi	$\epsilon$					İ
	Mar. 24	10.4	11 55	34.00	[	80	14	27.9	R	Мау	4		12		48.05		111	56	7.3	м	
34.13	26	10.5	55	34 14			14	28.4	R		8				17·98 17·94			56 56	7·5 6·9	M	
,,,,	Apl. 2 4	10.6	55 55	34·09 34·12			14 14	28·9 27·8	R R		12 23				48·00			56	7.3	M	
İ	5	10.5	55	34.17	3		14	28.8	R		25				47:91			56	7.3	м	l
1	7	10.6	55	34.16			14	30.5	R	9	26			3	48.05			56	6.8	м	
	10	10.6	55	34.10			14	30.8	R											_	
[]	11	10.6	55	33.93			14	31.2	R	223	3		ρ	Ce	ntau	ri.					
.	12	10.6	55	33.95			14	31.2	R	A 3	<b>,</b>	4.0	12	5	13.72	1 1	141	41	0.4	_	
196	13	10.6	55	33.97	4		14	31.9	R	Apl.	7 13	4.0	12		13.65		Tar	41	0.4	R R	13.73
	218		מ	P. L.	90					i	17	4.0		5	13.60			41	1.5	R	
•	210		л. л	r. L.	03.						19	4.0		5	13· <b>5</b> 6			41	2.1	R	16/
	Apl. 20		11 58	32.73	3	3	43	50.1	R	May	3	4.6	ì	5	13.68			41	1.7	м	
31.73	27		58	33-19	3		43	49.7	R				· · · · · · · · · · · · · · · · · · ·						<u>-</u>		
										224	ŀ			δ	Cruci	s.					H
			R. P.	L. 89	s.j	p.				Apl.	К	3.0	12	8	37:47	i	148	3	51.6	R	
32.93	Nov 29	1	11 58	2 9 3 3 <del>4 20</del>	3	3	43	52.2	M		11	3.0	1		37.34		1.30	3	51.1	R	37.37
0.94	Dec. 3		58	32 <del>.50</del> 0	3		43	50.3	R		14	3.0	l		37.35			3	49.3	R	.46
1.150	14		58	33-26	3	}	43	52.3	R		18	3.0		8	37.43			3	49.1	R	.46
										May	4	4.0	]	8	37.55	]	ļ	3	53.9	M	
	219		δCo	entau	ri.													-			
57.35	Mar. 26	3.0	12 1	59.4 <b>1</b>	1	140	0	14.0	R	225	5			4 C	orvi	γ					
.29	Apl. 2	3.0	12 1	59.32		140	2	13.4	R	Apl.	10	3.0	12	9	28.94	l	106	51	31.0	R	
. 714	4	3.0	i			l	2	12.8			12	3.0	1.2	9	28.94		100	51	30.2	R	28.76
134	11	3.0	1	59 <del>59</del>	<u> </u>	į .	2	10.5	R		13	3.0		9	28.97			51	30.7	R	199
- 41	14	3.0	1	59.36			2	13.1	R		16	3.0		9	28.88	'l		51	29.8	R	189
35						·				May	5	3.4	]	9	28:92			51	31.6	M	
	220		1 (	orvi	$\boldsymbol{a}$								,	- T		•_					
		1 4.5	ا ده ا	4.04	1	1114	2	32.4	R	220	6		1	o V	'i <b>r</b> gin	us ŋ					
	Apl. 5	4·5	12 2	4·04 4·02	1	11.4	2	32.0	1	May	2	l	12	13	36.68		89	58	58.0	м	36164
	12	4.5	2	4		1	2				10			13		1		58	58.6	м	H
3.99	16	4.5	2			ł	2			1	12			13	36.85				59.7	м	
.93	May 2	4.6	2	4.17		1	2	33.1		1	23			13					58.2	M	
									<u></u> -	1	24			13		1			58.7	M	
	221		Тац	lor 5	57 <b>4</b> .					1	25		]		36.70	,		58	59.1	М	
		1	1	00.00	. 1	1		<b>=</b> 0.0	1		26			13	36·80 36·78			58 58	57·4 59·5	M	
	May 9	7.5		22.85		141		59·0	- 1		28 30			13				58	57.6	M	
	June 4	7·5 7·5	3	22.80 22.75	)			56.7			31				36.87				57.9		
22.81	oune #	1,3	"	- 44 A	<u>`  ···</u>	<u></u>			1	1			<del>!</del>				1				Ŋ

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	. Magnitude.	Mean Right Ascension 1877. h. m. s.	No. of Wires.	Di	n Po istan 1877.	ce	Observer.	Number and Date.	Magnitude.	Mean Ascer 187	rsion 7.	No. of Wires.	D	an P istar 1877	ice	Observer.	
	227		e Cruci	s.					232		a l	luscæ.						
43. <b>3</b> 9 '54	Apl. 5 7 10 11	4·0 4·0 4·0 4·0 4·0	12 14 43·5 14 43·4 14 43·3 14 43·3 14 43·4	3 4 3	149	43 43 43	15·5 15·7 15·0 14·0	R R R	Apl. 12 14 23 27 May 8	4·0 4·0 4·0 4·0 5·5	12 29 29 29 29 29 29	51:45 51:45 51:43 51:48 51:60		158	27 27 27 27 27	29·4 31·0 27·3 27·5 30·7	R R R M	51.52 .65 .68 .85 <u>60</u> 51.66
-	228	<u> </u>	7 Corvi		,			_	233			lnon.						
30.06	Apl. 10 12 14	3.0	12 23 30·0 23 30·0 23 30·0		105	49	48·5 48·6 49·2	R R	June 2 234	9.5	<del>'</del>	31·74  Centau		84	34	48.7	R	31.73
-05 24 .96. 20.03	16 May 2	3·0 3·4	23 29 9 28 2 <del>9 9</del>	š		49	47·8 48·6	R R M	Apl. 10 11 13	3·0 3·0 3·0	12 34 34 34	44.14 44.00 44.11		138	17 17 17	1·9 1·3 0·1	R R	!4 44.11
	229		γ Crue	s.					16 May 2	3·8 3·0	34 34	43:07			16 17	58·7 0·8	R M	·00 40
20.75	Apl. 17	2·0 2·0	12 24 20 6 24 20 6	5	146	25	27·7 26·9	R R	235		β	Muscæ	•		•			
-94 .96	21 26 May 3	2·0 2·0 2·3	24 20 8 24 20 8 24 20 8	<b></b>		25	26·6 28·1	R R M	Apl. 12 14 17	4·0 4·0 4·0	12 38 38 38	44.78 44.66 44.80		157	26 26 26	3·2   5·4   6·2	R R	44.85
	230		y Musc						19 May 9	4·0 3·7	38 38	44·82 44·92			26 26	5·2 4·9	R M	.93
8·26 -27	Apl. 11 13	4·0 4·0	12 25 8·1 25 8·9	6 8 8 	161		16·5 15·6	R R	236		,	Crucis	•				·	
·25 ·35	18 20 May 5	4·0 4·0 5·0	25 8·1 25 8·1 25 8·1	š		27	15·9 15·5 15·7	R R M	Apl. 11 13 16 18	2·0 2·0 2·0 2·0	12 40 40 40 40	32·23		149	0 0 0	58·3 57·5 56·4	R R R	32.33
,	231		9 Corv	β					May 8	2.0	40				0	56·9	R M	./3
	May 10 12 23		12 27 55·6 27 55·6 27 55·6	1	112	42	58·8 57·6 59·1	M M M	237 June 2	10.9	12 44	10.46 10.62		80		50·6 50·7	R R	10.61
	24 25 28		27 55·6 27 55·7 27 55·4	0		42 42	57·1 58·1 59·3	M M M	5	10.8	44	10.30 L. 98-	5			50.7	R	10 -31
	29 80		27 55·6 27 55·6	8		42	59 3 59·0	M M	238 Dec. 10	l	л. Р.		_		54	48:5	R	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Asc	Right ension 377.	No. of Wires.		n Po stanc 1877.		Observer.	Num an Dat	d	Magnitude.	As	nn R scens 1877	ight iion	No. of Wires.	Di	ın Postan 1877.	ce	Observer.	
	239		R.	<i>P. L.</i> 9	9.				•	244	Ł		51	Vi	rginis	θ					
	Мау З		12 48	3 14.15	3	5	55	3.9	М	May	14		13	3	34.85		94	52	52.8	м	
	June 5		4.8	-	3		55	4.4	M	June	i				34.89				55.4	R	34.91
	9		48		3		55	5.9	M		4			3	34·9 <sup>1</sup>			52	55.3	R	•93
	23		48		3		55	4.5	M										·····		
	25 29		48		3 3		55 55	3·5 5·4	M	24	5		4	6 F	lydra	γ					
	25 31		48		3		55	3.7	M	١.,			١.,		]	1			1		11.27
		]								Apl.	20 23	4·0 4·0	13		14.28 14.16		112		18.9	R	14.27
			R. P	. <i>L</i> . 99	s.n	).					27	4.0			14.22		l		18.7	R R	.29
			,	14.66	τ.Σ						30	4.0		12	14.00			31	18.0	R	101
14.66	Nov. 3		12 4	8 16:75	2	5	55	5.7	R	Мау	2	4.4	3	12	14.03				18.7	R	08
	240	77 U	rsæ M	lajoris	ε (A	liot	ı).		-	24			1		entau	<u>!</u>	1	-			13
		,		3		,			1	24	ъ			ιυ							
16.53	Apl. 16	3.0	l .	8 36.29		33	22	16.8		Apl.	21	3.0	13	13	10 <del>:06</del>	}	126	3	45.2	R	41.02
	17	3.0		8 36.53		ļ	22	17.0	1	l	26	3.0		13	40.93			3	43.9	R	40.98
· HO	19 20	3.0	1	8 36·46 8 36·49			22 22	18·5 19·2	1		28	3.0		13	40.87			3	43.3	R	41.02
.41	May 4	3.3	1	8 36.68			22	18.2	1	May		3.2		13	41.14			3	46.4	M	
		100			T	<u> </u>					10	4.0	<u> </u>	13	41.10			3	46.3	M	
	241	12	Canui	n Vena	ticor	rum	α			24	7	6	7 V	irgi	nis a	, Spi	ica.				
	May 14	1	12 5	60 16·26	1	51	0	58:9	м	May	2	ı	179	18	92. 42:7 <del>9</del>	ı	100	31	6.1	٠	42.82
	26			0 16.25		"	0	59.7	1	may	14		10	18	42.90		100	31	6.0	M M	12.00
	28		1	60 16:26	1		ı	0.0			24			18	42.80	1		31	6.7	M	
	30		1	60 16:26	1		0	58.9	1	June				18	42.78	1		31	8.0	R	
	1				1,	•			·				ــــــــــــــــــــــــــــــــــــــ		P. L. 1		.!				
	242		Č	Musco 84						24		f			38.3	6.	,			1	
49.84	Apl. 20	3.0		53 49. <del>64</del>	[-]	160	53	9.7	R	Apl.	30		13	19	42-15	3	4	36	8.9	R	38.36
.95	23	4.0	l l	53 49 79		ł	53	7.8	1	i											
. 99	27	4.0		53 49.68 87		}	53	8.5	1	1			R.	P. 1	2. 103	<b>—</b> s.	р.				1
.87	28	4.0	,	53 49·84	I	1	53 53	7.7				1	1		38.19	1 .			-1.0	ı	38.13
-84	May 24	2.0	'	53 49.56	<u>'l'''</u>	<u> </u>	53	11.1	M		31	l	13				1	36	9.4		38.13
					_					Dec	. 19	<u> </u>	<u>l</u>	19	40.97	3			94	R	.
		,	ļ	i e (Vir		,			П	24	<b>.</b> 9		7	9 V	irgini	sζ					
•	Apl. 17	3.0	- 1			78						1	1	25	0× = =	.1	1 00		<b>#0.</b> 0		
3.024	19	3.0	1	56 3·01			22			May			13	28	25.56	1	89				1
	21	3.0	1	56 3.06			22				5	""		28				57 57		M	H
.26	26 Wa- 10	3.0	- 1	56 3.08			22		1	T	31			28 28			1.	57 57	56·6	1	25.40
	May 10	4.0	1	56 3.77	<u> </u>	1	22	44:	3 M	Jun	U 44		1_	20	20 01	1	<u> </u>				1100

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean H Ascens 1877 h. m.	ion 🚖	Mean Dis 1	n Postance 877.	lar e	Onserver	Number snd Date.	Magnitude.	Mean I Ascen 187		No. of Wires.		n Postan 877.		Observer.	
	250		e Ce	ntauri.			:	1	256		Ston	e 7666						
5.83	Apl. 26	8.0	13 32	5.70	142	50 9	28.5	R	May 12	8.2	13 51	25.75		123	47	45.6	ж	
5:95	27 28	8.0	32 32	5 550 1001	l		23·0 1 23·7 1		257		93 V	irginis	т				_	
6.00	30 Mar. 4	8.0	32 32	6.40	1			B.	May 10	1	13 55	23.18	1	07	51	94.7		
	May 4	8.4	)		<u> </u>	50	23.4	_	29	••• •••	55	23.19				34·1 33·2	M M	
İ	251		ν Oe	ntauri.					June 1 5	. •••	55 55	23.16				33.7	R	99.43
7.86	May 2	3.8	13 42	7.74	131	4	24.7	м	6		55	23.13				33·8 34·5	R R	23.17
	. 5	3.9	42	8.07	l			ĸ	14		55	23.18				35.4	R	
	8 28	3.8	42 42	7·87 8·06			1	M									-	
8.18	June 2	3.2	42	8-05				R	258		5 C	entauri	θ					l
,		<u> </u>			<del></del>			ᅵ	May 2		13 59	26.86		125	<b>4</b> 5	50.2	м	26.95
	252		μΩ	entauri.				ŀ	3		59	26.97			45	51.9	M	il
12.71	Apl. 28	3.2	13 42	7/ 12· <del>54</del>	131	51	36.7	R	4 26	•••	59 59	26·81 26·90			45	51.5	М	
	Мау 4	8.8	42	12-79	}			м	June 2	•••	59	26.86			45 45	46·5 50·3	M R	.47
1	10 12	3·6 4·0	42 42	12·75 12·64				M M			<u></u>							∦ .
	23	3.8	42	12.76			(	м	259		R. 1	P. L. 10	08.					
	253		ζ 0	entauri.				-	June 4		14. 2	14.42 1 <del>5:34</del>	3	3	39	10.1	R	14.42
	May 3	3.4	13 47	52.51	136	40		и	260	16	Booti	s a, A1	ctur	rus.				
	24 25	3.8	47 47	52·42 52·60		40 40	1	M M	Мау 2	١	14 10	3.22	1 1	70	10	34·6	-د ا	3.20
	June 1	3.0	47	52.52		40	54.0	R	3		10			70	10	35.8	M	
	4	8-0	47	52.62 4		40	52.5	R	9		10				10	36.1	м	
	0.14	0	0 1	Bootis η				_	29 June 9		10	2-			10	35.2	M	
	254				1		1		June 9	•••	10	3·1F	•••		10	36.7	R	.12
49.74	May 9 June 2		13 48 48	49.74	70	59 59	6·8 5·5	M R	261		W. B. I	E. XIV	7. 19	2.				
41.74	5		48	49.71		59	6.1	r. R			,		ı				ı	
	7		48	49.54		59	5.7	B.	May 81	7.9		34.24		103		20·4 19·9	M	1
	14	<u> </u>	48	49.74		59	8.4	R	2	7.8	12	34·69 34·03				19.4		108
	255		<b>6</b> (	Centauri.					<b></b>	<del>'</del>	<del>'</del>			<u> </u>				00
	Apl. 30	4.2		47-84	131	20	55.8	R	262		25	Bootis	ρ					
	May 4	4.9		47.95	- 1	29		M	Мау 5	ſ	14 %	31·78	1	59	ĸ	16.2	M	11
	14		50	48.01		29		M	9		20	31.62	]	00		16.6		1
	30	4.4		47.94	1	29		M	June 2			5 31·62 5 31·80			5	15.8	2	31.75
	31	5.0	50	48.07		29	56.1	M	9	<u> </u>	26	31.83			5	16.7	. 3	

Separate Results of Madras Meridian Circle Observations in 1877.

Number and Date.	Mean Right Ascension 1877. So No. 1877. So N	Number and Date.    Property   Mean Right   Mean Polar   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   1877.   Distance   Distan
263	R Camelopardi, Var. 1—s.p.	269 κ Centauri.
Jan. 5 0.78 0.27 26 57.26 59.11 0.77 59.14 16	9·8   14   27   0·53   3   5   36   43·9   R 9·9   27   20   7   36   44·1   R 10·0   27   0·99   3   36   40·9   R 10·0   27   0·60   3   36   40·9   R 10·0   26   59·12   7   36   43·9   R 10·0   27   0·60   4   36   42·8   R 10·3   26   58·44   7   36   40·1   R	May 31   3·4   14   51   9·98     131   36   32·3   μ   γα·γς   γ
264 42-05 May 2	η Centauri.    3.5   14   27   41:95     131   36   58.9   M   3.3   27   42.07     36   1.1   M	May 24   3·2   14 57 18·74     49 7 21·5   M   25   3·4   57 18·71     7 22·1   M   26   3·6   57 18·64     7 20·8   M   June 2   3·0   57 18·76     7 21·4   R   13·7
8 28 June 5	3·4     27     42·21      36     59·7     M       3·5     27     42·17      36     58·6     M       3·0     27     42·68      36     58·8     R	4   3·0   57   18·93     7   21·8   R   ·8     271
265	a Circini.	16 59 10·49 34 20·0 R
May 4 5	4·4     14     32     35·26      154     26     17·5     M       4·3     32     35·23      26     17·8     M       4·4     32     35·35      26     16·4     M	272 ζ Lupi.
35.57 June 1	4·4 32 35·35 26 16·4 M 4·0 32 35·16 26 19·7 R 4·0 32 35·29 26 18·4 R	May 12   15 3 27.49   141 37 45.2 m   28   3 27.69   37 46.0 m   31   3 27.69   37 45.5 m
266	36 Bootis e, Mirac.	June 2 3 27 51 37 45 1 R 27 49 45 3 27 44 6 R 50
37.00 June 5	14   39   37 01     62   24   23 1   R   39   36 01     24   22 2   R	273 R. P. L. 111—s.p.
267	9 Libræ a²	Jan. 16   15 4 14+86   3   5 34 24+9   R   13 · 024   Dec. 21     4 15 · 12   3   34 24 · 7   M
4.5° June 6 15 18	14   44   4.48     105   31   44.5   R       31   46.2   R       31   45.4   R	274 γ Trianguli Australis.  May 29   3.4   15 7 26.77     158 13 22.9   μ
268	β Lupi.	June 5     3.0     7     26.72      13     23.5     M     24.77       6     3.0     7     26.65      13     21.5     x     24.77       7     26.65      18     22.0     x
13.2 May 12 12.7 24	4.0   14 50 28.87     132 38 11-1 M   3.0   50 28.95     38 10-3 M   3.0   50 28-91     38 10-3 M	7 3.0 7 26.86 13 22.3 E
12.7 29.07 June 1 11.2 '05 12.5 29 91 6	3·0 50 28·97 38 12 R 3·0 50 29·00 38 12 R 3·0 50 28·87 38 20 R	275   27 Libræ β   May 31     15 10 23·30     98 55 40·5   μ   June 21     10 23·33     55 39·1   π

Separate Results of Madras Meridian Circle Observations in 1877.

1	Number and Date.	Asce:	Right nsion 77.	5	an Poistano		Observer.	Num and Dat	1	Magnitude.		an Escens 1877 m.		No. of Wires.	$\mathbf{Di}$	n Postano 1877.	ce	Observer.	
	276	U Coro	næ Var	4.				282	**************************************		12	Dr	aconi	sι					
	1		(	(		(	- 1	June	2	3.0	15	22	119 <del>116</del>	[	30	36	7.8	R	11.97
] [	May 3	8.8 15 13	l l	57	54	8.9	М		6	3.0		22	12·1 <del>4</del>			36	8.9	R	12.04
	4 5	8·7 13 8·6 13		"	54 54	8·8	M		15	3.0		22	11.92			36	11.2	R	
i i	8	8.6 13	10.77	"	54	9.2	M		18	3.0			11.96			36	11.0	R	
N .	9	8.5 13	40.07	.	54	8.9	M	July	3	3.2		22	12.03	•••		36	8.1	M	
1	10	8.7 13	10.00		5 <b>4</b>	8.7	M	283					Lupi.						
	24	9.0 13			5 <b>4</b>	8.3	M		(		,	-							
	25	8.6 13	10.48		<b>54</b>	8.4	M	Мау	- 1	3.4	15		56.81		130	45	5.8	M	
	28	8.3 13	71 1		<b>54</b>	7.1	ж	T	23	3.4			56.87			45	5.1	М	
10'71	June 2	8.5   13	10.77		54	8.2	R	June	20	3.0 3.0			56.76			45	5.6	R	
	<b></b>		° I:						27		}	26 26	56 76 56 94	•••		45	5.4	R•	
	277		δ Lupi.										50 34			45	4.5	м	
1.9 18:00 1	May 23	4.7   15 13	18.05	130	12	6.9	м	284	,			37	Libræ						
2.2 18.17	June 6	4.0 13			12	7.2	R	Мау	25		15	27	27.41		99	38	26.8	M	
8 3 15.03	7	4.0 13	18.63		12	8.3	R		29			27	27 42			38	27.3	м	j
8.1 17.42	9	4.0 13	17.56		12	8.1	R	June	4			27	27 63			38	27.2	R	
	15	4.0 13	17:90		12	8.0	B		9			27	27.63		1	38	28.7	R	
5.2									18			27	27:59			38	29.4	R	
	278		e Lupi.							-	. ~								
20.13	June 4	4.3 15 14	19.78	104	.,	no.=	1	285	1	1.	3 Se	rpei	rtis δ	21	nd.				
.01	16	l l	1974	134	14 14	39·7 43·4	R	Мау	31		15	28	55.64	[ ]	79	2	51.6	M	
000	18	1	19.74		14	42.5	R	June	2			28	55.65			2	53.1	R	
21	27	48 14	1		14	41.9	R		7			28	55.63		1	2	52.6	R	
	July 3	1	19.71			42.5	M		28			28	55.49			2	53.3	M	l l
20.08								July	4			28	55.21			2	51.4	M	
20.08	279	S. Li	bræ, Va	•. 5.				286		5 Core	onæ	Bor	ealis	a, 1	4lph	eta.	······································		
•	July 9	9.0 15 14	20.27	109	56	34.9	M	Мау	4	<b>1</b>	15	29	28.83		62	52	11.6	м	{{
1	10	9.0			56	36.6	м	June				29	28.72		-		13.8	R	
	11	9.4 14	20.42		56	34.8	M	July	7			29	28.76		İ		11.3	M	
1							`		10			29	28-90				13.0	M	1
13	280		P. L. 11					ł	11			29	28.89				11.9	M	
32.53	Nov. 27	15 12	7 34-07	2 2	17	49.0	M		16			29	28.89			52	12.7	M	
			<del></del>				<del>'</del>		18	ļ			28.89			52	12.1	M	
	281		sæ Mino		,			287	,			39	Libra	e.					
32	May 30	3.9 15 2	56.32	17	43	40.2	M	Мау	30	4.2	15	29	33.42	١	117	43	31.6	м	
- 11	June 1	35 2	1 90.99	•••	43	40.7		June		4.0		29	33 61	ł			32.7		33.71
32	5	3.5	56 <del>16</del>		43	40.3			5	4.0		29	33 65				33.1		172
.26	7	3.5 20			43	89.9	R	1	, 6	4.0		29	33·54			43	33.2	R	. 57
20	9	3 5 20	56.35	]	43	31.3	R	July		4.0	1		33.39				32.9		

Number and Date.    Number and Date.   Secondary   Sec	
288 24 Serpentis α 293 37 Serpentis ε	
171	41.17
12'34 June 1 15 55 12 07 55 11 55 Tale 0 9:5 44 40:00 9:501 3	
2 35 12 59 11 2 9 10 3 6 44 41 05 9 0 8 1	(
18 38 12:60 11 9·2 R 11 8·7 44 41·18 8 59·7 1	r
20 38 12·74 11 9·6 R 14 3·0 44 41·01 9 1·0	4
29 38 12:55 11 8:6 M	
July 9 38 12·64 11 7·9 M 294 45 Libræ λ	
10 38 12:59 11 9.6 M June 2 4.0 15 46 12:02 109 47 50·8	R 12.35
11 36 12 59 11 014 15 4 4.0 46 12 16 47 50 4	R 1 rece
	M Feet of Str.
OO Common tie P	M de
289 28 Serpentis 5 18 4.0 46 11.80 47 49.5	<u>M</u>
Muy 28   3.7   15 40 30.59     74 11 30.7   M 295   R. P. L. 115—s.p.	
29 3.7 40 30.60 11 31.9 M	
June 4 3.5 40 30.75 11 30.5 B Jan. 5 15 46 28.97 3 4 46 19.3 7 3.5 40 30.62 11 30.6 B 13 46 25.83 3 46 19.9	R 24.11
11 22.9   8   1   1   20.01   1   1   1   1   1   1   1   1   1	R Zi. II
1.4   3·5   40 30·60     11 33·2   R   18     46 24·95   3   46 18·9	
290 5 Lupi χ 296 5 Scorpii ρ	
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R 17.52
May 30 43 15 42 8:63 15 5:0 R 16 4:0 49 17:51 51 11:9	R
1 17   June 5 40 42 878 15 5.2 B 20 4.0 49 17.43 51 11.9	В
'' 16 4:0 43 8:74 15 2:9 R July 6 4:0 49 17:43 51 37	M
25 4·0 43 8·54 15 1·9 M 10 4·2 49 17·55 51 9·9	м
297 41 Serpentis y	
291 32 δετρεπικό μ	ı M
34 11 98 93 3 7.0 M May 28 4.0 15 50 200 56 10:1	M
June 6 3.5 43 12.26 3 7.6 B 29 3.9 50 46.35 56 10.3	1 !!
15 3·5 43 12 09 3 9·4 R June 5 3·0 50 46·21 56 9·3	R
18 3.5 43 12.04 3 87 8 0 0.0 50 46.10 56 11.5	R + 5.2
20   3.5   43 12.05	
298 6 Scorpii π	
292 \(\beta \text{Trianguit Austratio.}\)	
15 24 19 20 15 44 19 20 153 2 50 0 E	
11   3   3·0   44   19·03     2   55·1   M   14   3·5   51   24·54     45   28·5	B
4 3.5 44 19.07 2 55.6 M July 4 3.6 51 24.45 45 28.6	M .
5 3.1 44 19.09 2 50.7 4 9 3.4 51 24.55 45 231	
7 3.5 44 19.26 2 567 1 7	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	h.	1877 m.		No. of Wires.	D	in Poistan 1877.	ce	Observer.	Numi and Date	l e.	: Magnitude.	As	an I scen 1877 m.	Right sion	No. of Wires.		n Postano	ce	ж Observer.	
			,			,	,			,		29			7	53.96			22	32.7	М	
וירו	June 7	•••	ı		17:05	•••	109	28	1.2	R	July	5	•••		7	53.94			22	83.7	M	
	15 16	•••		58 58	17·19 17·14	•••		28 27	1·7 59·8	R		6			7	54.05			22	33.4	M	
	22	•		58	17:18			28	0.4	R R		7 9	•••		7	54.01			22	33.9	М	
{	23		i	58	17:25			27	59.1	M		10			7 7	53·92			22 22	32·5 35·0	M	
1	25		1	58	17-23			27	59.3	M		14			7	53.78			22	32.9	M M	
Ì	27		1	58	17:12			28	0.5	M		16	•••		7	54.01			22	33.8	M	
1	28	****	}	58	17:11			28	1.1	M						03 01				000		
ľ	29			58	17:25		1	27	59.3	м	30	3		2	2 0x	hiuch	iε					
Ì	July 3			58	17.24			27	59.7	м	Мау		3.9		_		. ,	OH.	20	od.a.i		
	4			58	17:10			28	0.6	м	шау	26 29	3.5	16	11 11	48·69 48·73		94	23 23	23.4	M	6.3
	5			58	17:19			28	1.1	м		30	3.6		11	48.59			23 23	22.4	M M	5.2 5.5 5.1 48.93
	6		1	58	17 13			28	0.6	M	June		3.0		11	48.96			23	23.0	R.	51
1	7		1	58	17.24		1	28	0.8	M	1	4	3.0	1	11	48.97			23	23 0	R	40,7.
	11		1	58	17:19		1	28	0.1	M	<b> </b> -			1			1	<u> </u>				
	14	•••		58	17.25		<u>L</u>	27	59.7	M	30	4		2	0 <i>H</i>	erculi	sγ					
·	300		1.3	B Di	racon	is θ					Мау	25	3.7	16	16	00.50	1	1 40		00.0		
1											June		3.5	10	16	29·76 29·9 <b>5</b>	1	70	33 33	23·9 24·1	M	
	May 26	•••	15	59	35.28		31	6	17.9	M	Vunc	5	3.2		16	29.90			33	26.8	R	29.92
	29	• • • • • • • • • • • • • • • • • • • •		59	35 22			6	19.2	M		6	3.5		16	29.82			33	27.8	R	
35·25 28	June 2			59	35.44			6	19.1	R		7	3.5		16	29.67		j	33	27.4	R	
23	4			59	35.35			6	19.6		-			1			)					
	5	<u> </u>	]	59	35.30	···		6	20.5	R	305	5	2]	L Sc	orpi	ia, A	Inta	res.				
	301		I	Չ. <i>F</i>	. L. I	116.					June	e 21	[	[16	21	52.09	(	116	9	24.6	R	
		1	1	_	1.11	1 .						23			21	52.04		ļ	9	25.2	м	
1-11	June 1	•••	16	2	3-28	3	4	20	54.3	R	1	27			21	52.15		-	9	24.7	M	il
			D	ם מ	L. 116						1	28	•••		21	52.05			9	25.0	M	
			11.			,—ə '	.p.				July		`	1	21	52.19			9	23.5	M	
0.37	Jan. 8		16	2	1-20	3	4	20	51.1	R	1	17			21	52.01			9	25.1	М	
1.08	Nov. 22			2	2:24		1	20	53.4	1	1	18 19			21	51.99	1		9	24.8	M	
2.07	Dec. 27			2	2.55 0.27	3		20	51.7	M		30			21 21	52·06 52·07		1	9	24.9	M	
1.46	29			2	0.27	3		20	50.5	M	ł	31			91	52.0V			9	24.8	M	52.04
											Ang	. 3			21	51.97		İ	9	24·5 24·8	M	.04
	302		J	ιOχ	phiucl	π δ							1					<u></u>				
	June 14		16	7	54.02	ı	93	22	35.4	k R	30	96			a	Norm	æ.					
	16			7	54.07	7 <b>.</b>	1	22	35.0	R	May	30	4.4	16	23	20.74	ı	124	26	2.3	M	11
	20			7	53.87	7			35.4		Jun	e 16	4.0			20.75			26	4.6	R	
	22				54.08				33.5		1	20	4.0		23	20.75			26	4.7	R	
	25				53.98	1		22			1	29	4.0		23				26	3.5	M	
	27	<u> </u>		7	53*98	<u>ن</u> ا أ		22	33.8	3 м	July	y 2	40		28	20.68	3		26	2.6	м	1

Separate Results of Madras Meridian Circle Observations in 1877.

_																					1
ţ	1	o l	3/10	an 13	sight	ea.	Mea	n Po	ılar			ø	Me	an T	light	Wires	Mes	n Po	Jar	. 1	
	Number	ng	Me	cens	Right	₩ I	Di	stan	ce	er.	Number	End		scen	sion	Wi	Dia	stano		E	
	and	nj:		1877	7.	of Wires	]	1877.		erv	and Date.	Œ.		1877	·	₩	1	.877.		19	
li li	Date.	Magnitude	h.	m,	8.	No.		,	,,	Observer.	Date.	Magnitude.	h.	m.	s.	No.	_	,	,,	Observer.	
ľ		A	16.	716.	••	4	•	<u> </u>								4	•			_	
	307		27	He	rculis	β					312		2	6 S	eorpii	€					
ŀ		2.8	16	24	56.08		68	14	28.9	м			,		- 4						
	May 31	2.5	10	24	55.95	•••	\ W	14	29.6	R	July 5	3.0	16	42	12.08	[	124	4	4.1	M	
	June 18			24	56.11			14	20.4	м	14	3.6		42	11.97			4	3.2	M	
27.3	July 3	3.0						14	28.0	м	Aug. 7	3.0		42	11 80			4	4.4	R	16.91
	4	3.3		24	55.91			14	28.4	M	10	3.2	Ì	42	11.98			4	2.3	M	195
	5	3.0		24	56.05		l	74	20 4	M	17	3.0		42	11.95			4	4.9	R	
	308	5	6 Op	hiu	chi, V	ar.	3.									<u> </u>			· · · · ·		
	June 1	10.9	_		10.56	5	106	54	3.4	R	313			$\mu^1$	Scorpi	ı.					ļ
10.62	2	10.8	1	27	10.58			54	3.8	R		۵.۳	مدا	40	00:40	1 1	10=	*^	0.1		
		10.8		27	10.44	l		54	1.7	R	July 16	3.2	16	43	32.49		127	50	3.0	M	
45	4			27	10.36			54	1.8	R	19	3.2	<u>L</u>	43	32.38			50	2.6	M	
139	5	10.8		27	10.47	3		54	1.7	R											
.49	6	10.9			10.35	3		54	0.2	R	314			$\mu^2$	Scorp	ii.		•			li
.47	7	10.9	1	27	10.45		1	54	1.6					•	_						
50	9	10.9		27		1				R	June 18	4.0	16	44	0.32		127	48	21.7	R	H
1417	14	10.9		27	10.61	3	1	54	1.0	R	22	4.0		44	0.35			48	19.8	R	l
1451	15	10.9		27	10.45	3		54	1.3	R	25	4.3		44	0.48			48	19.4	M	l
51	309		40	H	erculi	sζ					July 17	4.5		44	0.47			48	19:9	М	1
		ſ					58	10	24.6	1	20	4.3		44	0.02			48	20.3	M	
	June 21		16	36	38·97 38·96	•••	36	10	24.1	R			·								H
	22			36				10	23.5		315			ر 1ع	Scorpi	i.					H
	23		l	36	38.97				24.3	M				-	•						ll
	30			36	38.98			10	26.6	М	June 16	4.5	16	45	19.13		132	9	18.0	R	
	July 17			36	39.04		ł	10		M	20	4.5		45	19.18			9	17.5	R	ll .
	19		}	36	39.10			10	25.0	M	July 21	4.7		45	19:18		}	9	16.7	м	19.12
	20			36	39.02			10	26.1	M	30	5.0	l	45	19:13			9	17.5	M	1/8
36.39	30			36	$39.0\frac{7}{4}$			10	24.8	M	Aug. 8	4.5		45	19.17			9	16.2	R	+28
24.03	31			36	39.04			10	24.8	M			J			<u> </u>	<u>'</u>				11
103	Aug. 3			36	39.08			10	23.9	31				<b>5</b> -92	C						
38.97	7			36	39.00		+	10	24.2	R	316			5"	Scorpi	6.					
	310		4	4 F	lercul	is m						١	1			1		_			
	II.	1				1	ı			,	June 23	4.0	16	45	55.91	•••	132	8	52.4	M	
	June 15	3.0	16	38	40.70		50	50	34.5	R	29	3.2		45	55.75	•••		8	52.7	M	
	18	3.0		38	40.66		1	50	34.2	R	30	3.2		45	55.83			8	53.4	М	
	July 2	3.3		38	40.65		l	50	33.1	М	July 31	4.0		45	55.67			8	52.1	M	55.90
	3	3.2		38	40.81			50	33.0	M	Aug. 21	3.0	}	45	55.81		1	8	53.2	R	
	4	3.0		38	40.79		1	50	33.7	M			<del>'</del>							·	1
	311	<u> </u>	·	n	Aræ		·				317			ζ	Aræ.						
	li	1 4.15	Lac		10.36		148	40	10.4	٦	June 15	3.5	16	4.9	26.91	1	145	47	38.0	R	
	June 16	4.5	16			1	148				28	4.0	10	48	26.90	1	1.40	47	35.2		1
	20	4.5		39	10.42			49	9.5	1		1		48	26.84			47	34.5	M	
	July 9	4.8			10.48			49	8.7	M	July 7	3.7								M	
	10	4.3		39	10.63		1	49	9.0		10	3.5		48	27.02			47	35.4	M	H
	11	5.0		39	10.21			49	7.7	M	11	4.0	1	48	26.95		l	47	36.2	M	

Separate Results of Madras Meridian Circle Observations in 1877.

11	1	1																			
Number and Date.	Magnifude.	A	8cens 1877	Right sion 7.	No. of Wires	Me I	an lista 187		Observer.	Number and Date.	Magnitude.	As	187	Right nsion 7.	No. of Wires.	Me D	an I lista 187	Polar nce 7.	Observer.		
318			$\epsilon^{\scriptscriptstyle 1}$	Aræ.						June 5	9.4	17	3	40.76	<u></u>	106	11	54·1	R	40.79	
June 20	4.0	16	49	47:02	<b> </b>	142	58	7:9	i	6	9.5	Ì	3	40.64			11	52.3	i i	166	
22	4.0			46.99			58			7	9.5	ł	3	40.23			11	50.7	R	18 5	
July 5	4.0		49	47.16			58		1	9 14	9.6		3	40.88	3		11	50.6	R	-63	
16	4.5	.	49	47.29			58	5.6	M	15	9.6		3	40.60 40.82	4		11	50.5	R	il.	
19	44	<u> </u>	49	47.00	<b>)</b>		58	6.3	M	16	9.7			40.66	•••		11	51·7 51·0	1	]]	
319		27	0pi	hiuch	iκ					324	<del>'</del>	22		raconi				51 0	R		
June 18	<b> </b>	16	57	50.65	I I	80	25	۲0	1 _	June 15	3.0	17			-			•	1		
July 3				50 71		00	25 25	55·6 55·5	R	20	3.0	17		25·95 26·11		24	8	1.3	R		
13				50.75			25	55-3	M	28	3.2			26.15			8 8	3·1 0·7	R		
17		1		50.74			25	55.7	M	July 11	3.9			26.17			7	59.8	M		
20		i		5071			25.	55.8	м	14	3.4			26.21			8	0.4	M		
Aug. 3	•••			50.78			25	54.7	R	00.	C A	77	,	. 1					-	)	
·	]			50.75			25	54.6	R	325	. 04	Hero	cui	is a <sup>1</sup> ,	Va	r. 1.				7!	
320		58	He	rculis	8 €					June 25 30		17	9 9	2·31 2·41			28	1.7	м		
June 15		16 8	55	84.87	[	58	53	29-4	R	July 13			9	2.50			28 28	4.3	M		
16				34.77			53	29.2	R	18			9	2.37			28	5·3 5·0	M M		
20		1			٠		53	28-7	R	Aug. 4			9	2.33			28	4.9	R	2.34	
25 July 4		ı		34.97			53	27-4	М	10			9	2.44			28	2.5	M	142	
omy 4			55 3	34.94	··· ]		53	28.7	М	20			9	2-38			28	2.9	R		
321	22	Ursæ	Mi	noris	€—	s.p.				326		ζ	Aį	podis.							
Feb. 2		16 5	i8 (	38-87 (	3	7	45	47.3	м	June 22			9	9.15		157	88	21.5	R		
5	•			38:06	3		45	45.3	M	July 10 Aug. 8	5.0		9	9.22				18.3	м		
			i8 3	38.30	3		45	47.6	M	_	4.0		9	9.4	•••			19.4	R	9.37	
7	•••				- 1												38	18.4	R		
7	 			39.03	3		45	49-4	M	16 17	 4⁺0		9 9	9.38	- 1		90	10.0	11		
- 1		5	8 3				45	49-4	M				9	9.34			38	18.0	R		
14		5 η	58 3 7 Sc	99·0 <b>3</b>		1 <b>3</b> 3				327	40	67	9 He	9·34 rculis	 7T	,	<b>38</b> 	18.0	R		
322 June 18 20	3·5 3·5	η 17	3 2 3 2	99·03 90·68 90·69		133		27.8	R.	17 <b>327</b> June 16	<b>4</b> ·0	67 17 1	9 <i>He</i>	9·34 rculis 45·71 [	 7T	,	3	3.5			
322 June 18   20   23	3·5 3·5 3·8	η 17	58 3 7 Sc. 3 2 3 2 3 2	99·03 90·68 90·69 90·85		133				327 June 16 July 19	3·5 4·0	67 17 1	9 He	9·84 rculis 45·71   45·87	 7T	,	3 3	3·5 3·3	R M		
322 June 18 20 23 July 2	3·5 3·5 3·8	η 17	3 2 3 2 3 2 3 2 3 2	99·03   corpii.		133	4.	27·8 27·1 27·2 24·9	R R M	17 <b>327</b> June 16	3·5 4·0 4·0	67 17 1	9 He	9·84 rculis 45·71 45·87 45·85	 π 	,	3 3 3	3·3 3·3 3·0	R M M		
322 June 18   20   23	3·5 3·5 3·8	η 17	58 3 7 Sc. 3 2 3 2 3 2	00°68 00°69 00°85 00°72		133	4 4	27·8 27·1 27·2	R R M	327 June 16 July 19 20	3·5 4·0	67 17 1 1	9 He	9·34 rculis 45·71 45·87 45·85 45·89	 7T	,	3 3	3·5 3·3 3·0 2·6	R M M		
322 June 18 20 23 July 2	3·5 3·5 3·8 3·8 3·7	5 η	3 2 3 2 3 2 3 2 3 2	00°68 00°69 00°85 00°72			4 4 4	27·8 27·1 27·2 24·9	R R M	327 June 16 July 19 20 21	3·5 4·0 4·0 4·0 4·0	67	9 He	9·84 rculis 45·71 45·87 45·85 45·89 45·89	π	58	3 3 3	3·3 3·3 3·0	R M M	45·82	
322 June 18 20 23 July 2 9	3·5 3·5 3·8 3·8 3·7	17	3 2 3 2 3 2 3 2 iuch	39·03   0rpii. 20·68   20·69   20·85   20·72   20·71   hi, Va		5.	4. 4. 4. 4.	27·8 27·1 27·2 24·9 26·1	R M M	17 327 June 16 July 19 20 21 30	3·5 4·0 4·0 4·0 4·0	67 17 1 10 10 10 Here	He o o o o o o o o o o o o o o o o o o o	9·84   reulis   45·71   45·87   45·85   45·89   45·89   is u, ]	π	<b>5</b> 8	3 3 3 3	3·5 3·3 3·0 2·6 5·0	R M M M	45.82-	
322  June 18 20 23 July 2 9  323  June 1 2	3·5 3·5 3·8 3·8 3·7	17 : Θρh	58 3 2 3 2 3 2 3 2 iucl	00°03   00°070   00°08   00°08   00°072   00°71   00°9		5 <b>.</b>	4 4 4 4 4	27·8 27·1 27·2 24·9	R M M	17 327 June 16 July 19 20 21 30	3·5 4·0 4·0 4·0 4·0	67 17 1 10 10 10 Here	He o o o o o o o o o o o o o o o o o o o	9·84 rculis 45·71 45·87 45·85 45·89 45·89	π       Var.	<b>5</b> 8	3 3 3 3	3·5 3·3 3·0 2·6	R M M M	45.82 45 47.23	\$7 58

Separate Results of Madras Meridian Circle Observations in 1877.

			Number and Date.	Magnitude.	Mean Asce 18%		No. of Wires.	$\mathbf{Di}$	n Pola stance 1877.			Number and Date.	Magnitude.	Asce 1	Right ension. 377.	No. of Wires.	Di	n Postano 1877.	ce.	Observer.	
45~	59.5 58.6 57.8 59.5 59.4	47.3/	June 5 6 7 9 14 18 21	5·6 5·6 5·8 5·8 5·8 6·0	17 12 12 12 12 12 12 12 12	47·33 47·24 47·04 47·12 47·24 47·15 47·24		56	46 46 46	1:3 R 1:8 R 1:8 F 1:5 F	1 1 2 3	335 June 25 28 30 July 4 6		34 17 22 23 24 24 22	2 23·85 2 23·98 2 23·90		127	11 11 11	43·2 43·4 43·5 43·3 43·3	M M M M	
			329		40 C	phiuc	hi ξ					336		35	Scorpi	ίλ					
		38·04	June 20 27 July 17 31 Aug. 7	4·5 4·9 5·0 5·0 4·5	17 13 13 13 13 13	38·09 37·91 38·0 <b>3</b>		100	58 4 58 4 58 4	2.5	- 1	June 29 July 13 20 30 31		2	5 15·41 5 15·22		127	0 0 0 0	42·1 42·8 42·8 42·6 43·0	M M M M M	15.37
			330		42 (	Ophiuc	hi 6	)				337		6	Scorpi	i.				7	
			July 2 Aug. 17		17 14 14		1	114	52 2 52 2	- 1	и R	June 16 18 20	3·0 3·0	2	8 28·70 8 28·66 8 28·71		132	55 55 55	8·7   2·2 2·1	R R	
			331	1		y Aræ	,	1 140	15 0	باميد		July 2 18	3·6	2	8 28·80 8 28·90			54 55	59·6 0·4	M	
			June 29 Aug. 21 22	3·2 3·0 3·0	17 15 15 15	2.39		146		3.3	M R	338		55	Ophiuc	hi a	·				
			332		.'	3 Aræ		1	. , , , , , , , , , , , , , , , , , , ,	/	-	Aug. 4 7 8		2	29 13·50 29 13·46 29 13·48	!	77	20 20 20	56·1 54·6 56·1	į.	13.5%
			Aug. 20	3.0	17 15	δ <i>Aræ</i>		145	24 3	66.7	R	10 14		1 5	29 13·46 29 13·42 29 13·88	<u>ا</u> ا		20 20 20 20	56·3 56·7	M R	144
			June 18	4.0	17 19		1	150			R R	17 21		1	29 13.51	1		20			
			July 5 19	4·0 4·0	20	0.00 59.85	) (		34	10.1	M	339	1	,	Pavon		1		44.0	.1 _	
		. 76	334 <u>334</u>	4.2		a Ara	<del>'</del>	<u> </u>	34 3	37.4	M	June 15 18 21 July 5	4·5 4·5 4·7		33	7 8		39 39 39 39	40.8	R	
			June 16	3:0	17 29	2 19.99	9	139	46	34 1	R	10	4.8	1	33 39.6	1	.	39		1	
			20 22 23	3·6 3·0	2:	2 19·96 2 19·98 2 19·98	3   3			35·1 33·9	R R M	340	J	To	aylor 8	199.					
			July 8	8.2		2 19.98				- 1	м	June 20	9.5	17	36 41.0	5	.   65	21	. 50.8	R	1 0

 $Separate\ Results\ of\ Madras\ Meridian\ Circle\ Observations\ in\ 1877.$ 

	Number and Date.	Magnitude.	Me A	an R scens 1877 m.		No. of Wires.	Di	n Peistan 1877.	ce	Observer.	Number and Date.	r	Magnitude.	A.s	n H cens 1877 m.	Right sion	No. of Wires.	D	an Po istan 1877.	ce l	Observer.	
	341		69	0p	hiuchi	β					346			La		lle 74	94.					
.	June 16	8-0	17	37	28.96		85	22	45.8	R	Aug. 7	1	7.0	17	<b>4</b> 8	13.10		122	27	7.8	R	13.29
11	28	8.4		87	23.81			22	44.4	м	9	1	7.0			13.34			27	7.4	R	131
	25	3.2		37 SF	28.64			22	44.3	M	20	0	7.0		48	13.41			27	6.4	R	(41)
	July 3	3·4 3·5		87 87	23·70 23·63			22 22	44·5 44·7	M	347			Lac	cail	lle 750	6.					.64
	342	<del></del>	<u> </u>	,1	Scorp	ii.	·		<u>'</u>		Aug. 14	1	7:0	1		43.90		116	44	54.4	R	
		مما	(		_	,	1 -00		05.0		1/2	1	7.0	1	48	43.87			44	56.6	R	
}	June 29	- 1	17	<b>3</b> 8 <b>3</b> 8	58·78 58·77	1	130	4	35·9 37·1	M		2	7:0		48	43.90	•••		44	54.2		
	July 9	1		38	59.05			4	34·8	M	348			La	eai	:lle 75	02.					
	11	8.6		<b>3</b> 8	59.04			4	86.2	M	Aug.	8 (	7.0	17	48	46.41		122	40	2.1	R	46.4
ļ	18	3.9		38	58-86	•••		4	85· <b>1</b>	м	10	- 1		-	48	46 <b>4</b> 9			40	2.6	R	•••
	343		3 <i>Sc</i>	agitt	tarii,	Var	. 7.				2	1	7.0		48	46.60	•••		40	3.1	R	
ا مد و ا	June 1	-	17	39	بري 49· <del>20</del>		117	46	53.0	R	349			64	. OI	ohiuch	iν					ŀ
.27	4		-	39	49 24	]		46	53.6	R.	June 1	5	4.0	17	52	15.21		99	45	23.9	B	
	16	4.7		89	49.02		1	46	55.0	R	16	6	4.0	1	52	15.16			45	23.5	В	ı
	18			<b>3</b> 9	48.98		Ì	46	54.4	R	20	1	4.0		52	15.29	٠		45	21.7	R	ı
ļ	27			39	48.99			46	53.7	R	2.	- 1	4.0		52	15.87			45	22.5	м	i
.19	July 30			89 39	49·19 49·17			46 46	54·8 54·9	M	July 2	2	4.0	<u> </u>	52	15.41	•••		45	22.0	м	
.08	Aug. 2			39	48:00			46	54.3	R	350				θ	Aræ.					1	
.03	8			39	4 <del>8 0</del> 6			46	54.6	R		_ (					,	t		(	11	
	16	3		39	49 04			46	54.9	R	June 1	1	4.0	17	57	3.40		140	5	48.9	R	
				/T	7 00	200				-	1	25	4·0 4·0		57 57	3·23 3·29		ļ	5 5	48·8 46·9	R M	
	344			1 ay	lor 82						July 1		4.0		57	3.46			5	48.6	M	
	June 16	i	17				127	0	7.1	R	1 -	23	4.2		57	$3.\overline{27}$			5	44.7	м	3.31
}	July 3			41 41	29·04 28·96			0	6·1 5·6	R				·			<u>' —</u>					Í
	Aug. 1	1		41	28.90			0	5.6	M	351			10	So	agitta	rii 1	/2			11	
	1'	1		41		1		0	5.8	IR.	June 1	15	<b></b>	17	57	54.27		120	25	25.0	R	
Ì			<del>'</del> -			1	,			<del>'</del>		20			57	54.24			25	26.7	R	
	345			86 <i>I</i>	<i>lercul</i>	is μ	,					22			57	54.20	٠		25	23.4	R	
	T-1-	۱ .	1		00:00	. [	1			1 .	Ι,	3 11			57 57	54·25 54·43			25 25	22·3 23·0	M	
	July	,	17		38·60 38·67		62	12 12					]		21	0± ±0		1		20 U	М	
	, 19				38.62			12			0.50			R	adc	liffe :	3828	3.				
·	2				38.72			12		1	Aug. 1	14				56.25		1	32	25.5	R	
	2:	1 .		41	38.72			12	19.7			16				56.17	1	_	82	26.7	R	
38-61	Aug.			41	38.62			12	21.8	t t	Sep.	5	6.0		59		i		32	25.1	м	
.67					38.69			12		1		8	5.7		59				32	26.1	м	
	2	2		41	38.74	1		12	21.7	R	1 1	13	5.2		59	56.81	···	1	32	23.3	M	

Separate Results of Madras Meridian Circle Observations in 1877.

Aug. 8 6 24 32 5 19 4 M 362 20 Sagittar  9 6 24 35 5 20 9 R June 15 18 16 0 27  10 6 24 42 5 20 7 M July 2 16 0 26  14 6 24 42 5 21 0 R Aug. 3 16 0 14  16 6 24 42 5 21 3 R 8 16 0 17  20 6 24 47 5 20 2 R 9 16 0 08	No. of Wires.		ean P Distar 1877	nce	Observer.
Sep. 10   60   0   17.3\$     28   7.0   R   14   54   0   17.40     28   6.7   M   17   5.0   0   17.37     28   6.2   M   23 Ursæ Minoris	ris	δ			
17   50   0 17:37     28   6:2   M   23 Ursæ Minoris	3   2   2	3	23 23 23	29.8	M M
Aug. 8	-δ	—s.p	).		
22	3 3 3 3	3	23 23 23 23 23 23	30·0 32·8 30·9	R R M M
Aug. 22   45   18   2   5·89     135   58   22·9   R   21   3·5   13   7·11   25   3·6   13   7·09   356   Laeaille 7577.  Aug. 21   5·0   18   3   59·58     153   5   4·9   R   27   5·0   3   59·79     153   5   4·5   R   361   3·6   13   7·09   3·7   13   7·09   3·7   13   7·09   3·7   13   7·09   3·7   3   3   3·7   3   3·7   3   3·7   3   3·7   3   3·7   3   3·7   3   3   3·7	ii δ	3			<u></u>
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		110	52 52 52	41.6	R R M
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			52 52		M
July 2        18       6       24·37        111       5       18·7       M       30       4·2       14       56·59         4        6       24·38        5       18·5       M       20       4·0       14       56·59         5        6       24·38        5       18·8       M       20       4·0       14       56·46         13        6       24·48        5       19·6       M       30       4·0       14       56·86         23        6       24·32        5       20·2       M         30        6       24·32        5       20·2       M         Aug. 8        6       24·32        5       20·3       n         9        6       24·35        5       20·3       n         10        6       24·35        5       20·9       n       June 15        18       16       0·26         14        6       24·42	is $\eta$	.' 1			
4 6 24·61 5 18·5 M July 5 4·0 14·56·46 5 6 24·38 5 18·8 M 20 4·0 14·56·66 13 6 24·48 5 19·6 M 30 4·0 14·56·63 23 6 24·38 5 20·2 M 30 6 24·32 5 19·4 M 362 20 Sagittar  Aug. 8 6 24·34 5 20·3 n 9 6 24·35 5 20·9 n 10 6 24·35 5 20·9 n 10 6 24·32 5 20·7 M July 2 16 0·26 14 6 24·42 5 21·0 n 16 6 24·42 5 21·0 n 16 6 24·42 5 21·3 n 20 6 24·47 5 20·2 n  9 16 0·46 20 16 0·47 20 16 0·48		92	2 55	6 <b>4</b> 5·3	M
Aug. 8 6 24.3\frac{32}{24} 5 19.4 m  9 6 24.3\frac{5}{1} 5 20.3 n  9 6 24.3\frac{5}{1} 5 20.7 m  10 6 24.4\frac{34}{2} 5 20.7 m  14 6 24.42 5 21.0 n  16 6 24.42 5 21.3 n  20 16 0.1\frac{4}{2}  20 16 0.1\frac{4}{2}  20 16 0.0\frac{4}{2}  20			55 55 55 55	45·7	M M M M
9 6 24·3F 5 20·9 R June 15 18 16 0·27 10 6 24·28 5 20·7 M July 2 16 0·26 14 6 24·42 5 21·0 R Aug. 3 16 0·14 16 6 24·42 5 21·3 R 8 16 0·14 20 6 24·47 5 20·2 R 9 16 0·08	ii e	<u> </u>			·
			26 26 26	5 24·0 5 25·0 5 24·8	
358 $\eta$ Sagittarii. 363 a Telescop	, ,	<u> </u>	20	5 24 6	R
June 15      18     9     18·11      126     47     48·2     R     June 16     4·0     18     17     51·10       20      9     18·24      47     48·7     R     20     4·0     17     50·93       22      9     18·17      47     46·8     R     July 10     4·0     17     51·08       23      9     18·17      47     48·0     M     Aug. 7     4·0     17     56·87       July 10      9     18·31      47     47·6     M     14      17     51·00		136	5 2 2 2 2 2	0·9 1·1 1·6	R M R

Separate Results of Madras Meridian Circle Observations in 1877.

	-													·						
Number and Date.	agnita	Mean Ri Ascens 1877. h. m.	.   5	No. of Wires.	Mean Dist 18			Observer	Numb and Date		Magnitüde.	As	n Ricensi 1877 m.	.	No. of Wires.		Potane	lar e.	Observer.	
364	· ·	A	non.			٠.		1	371		:	3 Ly	ræ	a, Ve	ga.			,		;
Aug. 20	9.0	18 17	55.28	4 1	L21 4	9 1	1.3	R I	-	. 1	1	10	90 .		,	51	19	46.5	м	
22	8.9	-	55.29					R.	June 3 July	3	ļ	18 .		46·41 46·40	•••			46.1	M	
27	8.9	17	55.40		4	19	11.6	R	amy	4				46 56				47.0	м	
Sep. 12	8.6	17	55.15		- 4	19	11.3	M	9	21				46.45				47.6	M	46.44
17	8.8	17	55.35		. 1	19	10.8	K		28				46.46			19	46.7	M	.44
		4						_	Aug.	22			32	46 27			19	47.1	R	
365		A	non.					- 1	Sep.	5			32	46.36			19	47.4	M	
Aug. 21	7.7	18 19	5.96	•••			28.8	R		11				46.46	•••		19	48.4	M	1
24	7.8	19	5.99				27.5	R.		13				46 36	•••		19	48.2	M	
25	7.7	19	6.06	•••		26	29.6	R		14				46:39	[		19	48.0	M	
200		* To	lescop	ii.				1		15	•••			46·36   46·45			19 19	48.4	M M	
366	r	, -	-,				,			19			04	40 40				400	_	<b>}</b>
June 21	4.2	18 19	. 20	•••	189	8	5.8	R	0.00			τ	aul.	or 857	77	٠				11
Aug. 8	4.2	19	21.14	•••		8	2.6	R	372	6		1								1
Sep. 7	5.2	19	21.33	•••		8	5 2	ж	Aug.	7	5:0	18	33	22.05		154	59	2.2	R	22.32
11 13	5·4 4·6	19 19	21·36 21·39	•••		8	4.5	м		8	5.0			21.93	3		<b>5</b> 9	3.9	R	16
	40	13	21 00	•••		<del>-</del>	44 0	м_		21	2.0		33	21.98			59	5.8	R	
367		νP	avonte	8.				- 1	Sep.	12	5.0		33	22.08			<b>59</b>	2.4	M	1
	1 2.0				احدم	04	l			22	5.0	<u> </u>	33	22.23	•••		59	3.7	M	1
Sep. 14 18	5.0	18 19	52·92 53·21	•**	152		11.1	Ж												R
	30	1 10	00 21		<u></u>	<u> </u>	11.1	М	37	3	λ	Co	rono	e Aus	tral	is.				
368		$\delta^{1}T$	elesco <sub>l</sub>	oii.					Ang.	14.	ı	18	35	20.62	1	128	26	22.8	B	
Aug. 21	5.0	18 22			135	59	40.3	R	mug.	24	5.5		35	20.50			26	23.7	R	11
27	5.0	22			100	59	41.0	R	Sep.	6	6.0		35	20.65			26	22.6	M	\\
Sep. 19	5.2	22	88.66			59	40.6	м		7	6.0		35	20.57			26	21.6	м	1
21	5.5	22	38.77		1	359	42 0	м		10	6.0		35	20.44			26	22.0	M	
22	5.2	22	38:76		}	59	42.0	м			\	<u></u> -			<u> </u>	<u>.                                    </u>			<u> </u>	-
369		$\delta^2 T$	elescop	pii.	<del>'</del>			-	37	4			$\theta I$	avon	s.					
Aug. 7	5.0	18 22	56.16	1	135	50	.20.9	R	Aug.	25	5.0	18	36	31.86	1	155	12	4.2	l B	.
22	5.0	22	•	1		50	195	R	1	27	5.0	-	36	31.80	1		12		1	1
Sep. 24	5.5	22		1	1	50	20.8	M	Sep.	-	5.8	}	36		1		12		1	H
25	6.0	22	56.03	4			21.7	1	1	27	5.5		36	32 02			12	6.2	M	
27	5.9		56.19		1		21.4		-			عنات			<del></del>				<u> </u>	-
370	<u>.                                    </u>	ζΙ	Pavoni	s.				<del></del>	37	75		2	7 Se	igitta	rii ¢	<b>)</b> ,				
June 28	]	18 28	39 22	1	161	31	47.6	×	Jun	e <b>27</b>	1	18	37	58.3	3	117	, 6	54.0	) <u>1</u>	
29	4.0		39.23		1		50.4			7 5				58.1				54-8	- 1	11
Aug. 25	4.0	28			1		52.4		1	9	1			581				58.6	1	11
Sep. 17	4.5		39.20		1		51.8		1	11	·			7 58 2		1	(	6 54-0	- 1	£
18	5.6		39 36		.		47.9		1	14	3	-		7 58.2			(	6 54	5 3	c

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Separate Results of Madras Meridian Circle Observations in 1877.

Number and Date.	Magnitude.	_A	ean I scen 1877 m.		No. of Wires.	D	n Peistan 1877.	ce	Observer.	Num an Da	d.	Magnitude.	A	an I cen 187 m.	Right sion 7.	No. of Wires.	D	an Poistan 1877.	ce	Observer.
376		T A	lqui	læ, V	ar.	3.				38	1 -	•	34	Sa	gittar	ii σ	•			
June 1	9.4	18	39	50·6 <b>5</b>		81	23	7.4	R	June	15		18	47	38.15		116	26	50.7	R
2	9.4		39	50.64			23	6.4	R		20		ļ	47	38.12			26	49.7	R
15	9.7	İ	39	50.49			23	6.3	R	*	30	<b>.</b>	ŀ	47	38.27			26	50.0	M
21	9.8	İ	39	50.42			23	5.9	R	July	2			47	38.32			26	49 5	M
Aug. 3	9.7		39	50·5 <u>6</u>	4		23	8.4	R		10		]	47	38.35	<b></b>		26	50.1	M
7	9.7		39	50·4 <del>9</del>			23	10.1	R			~						•		
9	9.8		39	50.56			23	10.3	R	382	1	€ C01	rona	A	ıstral	15,	var.	L.		
14			39	50.62			23	9.1	R	A	1/	5.5	18	50	25.45	l	127	15	57.4	H
20	9.8		39	50.63			23	94	R	Aug.	15	1	10	50 50	25.47	4	121	15	58.4	R
22	10.0		39	50.70		İ	23	9.5	R		21	5.2		50	25.52			15	56.8	B
			` ,	n	• -					Sep.	3			50	25.20			15	56.3	28
377			λΙ	Pavon	<i>\S</i> .				•	acp.	12	5.5	l	50	25.35		1:	15	56.4	м
Aug. 21	5.0	18	40	49.06	l l	152	19	31.8	R				<u> </u>			<u> </u>	<u> </u>			
Sep. 13	5.0		40	49.17			19	88.0	м	383	}		1	3 4	l <i>quil</i> a	ε ε				
17	5.0		40	49.12			19	32.9	M				(		* **			_		ſ
18	5.0		40	49.02			19	33.0	М	June		3.2	18	54	2.30	1	75	5	52.6	1
22	5.9		40	49.03			19	32.4	м	١	27	4.2		54	2.50	1		5	50.3	1
				1	<u> </u>	·				July		3.7		54 54	2.38	i		5 5	50·8	,
378			к Те	elescoj	pii.						9 13	3.6		54	2.47	1		5	50.4	D
Aug. 27	5.2	18	42	53.92		142	14	43.5	R					- 4	· ····································					
Sep. 12	5.8		42	54.09			14	43.0	M	384	Ŀ			14	Lyræ	γ				
25	5.9		42	54.11			1.4	45.7	м	June	20	3.5	18	54	20 82	١	57	28	41.8	)
28	5.9	1	42	53.97			14	45.0	M	July		3.4		54	20.62	1		28	41.5	2
				D	• .					July	21	3.5		54	20.73			28	40.3	,
379			К	Pavon	<i>l</i> S.						23	3.9		54	20.6\$	. 1		28	41.9	1
Aug. 7	5.0	18	44	15 90	1	157	23	2.6	R	1	<b>3</b> 0	3.2	1	54	20.67		1	28	41.4	1
15	5.0						23	2.2	R				<u>-</u>				<u>.</u>			
W 47 P P P P P P P P P P P P P P P P P P		70	·······		******	<u>'                                     </u>			·	38	5		38	$S_{i}$	ıgitta	rii	ζ			
380		10	Lyr	æβ,	var.	1.				Jun	25		18	54	47:03	l	120	3	14.6	1
July 21	1	18	45	32.27	<b> </b>	56	46	43.0	M	July	14			54	47.10		İ	3	18.0	2
23			45			"	46	44.7			16		1	54	47.22			3	14.7	1
Aug. 9			45			1		43.9			17				46.99				14.5	
24			45			1	46			1	18		)	54	47.17	'   ···	İ	3	13.8	1
25	\		45				46				_				· 7	101				
Sep. 3		1	45				46			38	6		ŀ	i. P	. L.	131				
7		ļ	45	32.32		ļ	46	45.4	М	Aus	. 27		18	54	54.85	1 3	8	26	55.9	1
10			45				46			-			1			<u>'</u>	1			٠.,
14			45		1		46	44.3	1	1			R. 1	P. 1	. 131	Ls	.p.			
15 21			45				46	44.9				1.	1			. 1 .	1 .		b	1
		1	45	82.34	:	1	46	44.8	M	1 Feb	. 10	l	1.18	54	54.08	1 2	1 3	26	56.6	1 1

Separate Results of Madras Meridian Circle Observations in 1877.

	and Date	er	Magnitude.	h.	scen 187 m.		No. of Wires.	•	)ista: 1877		Observer.	Number and Date.	Magnitude.	h.	scer 18		No. of Wires.		ista 1877		Observer.	
	387		γ	Co	rono	e Aus	trai	is.				393			20	Aquile	np.	·				
1	Aug.	7	5.0	18	<b>5</b> 8	5·10 5·98		127	14	16.1	R		1			_						
		22	5.0		58	6.00			14	14.0	R	Aug. 14	5.0	19	6	0.48		98	8	35.1	R	11
		23	5.0	ļ	58	5.97			14	15.8	R	21 22	5.0		6	0.32			8	34.8	R	
	-	7 11	5·1 5·0		58	6.18	•••		14	15.6	M	Sep. 3			6 6	0·41 0·58	•••		8	35.0	R	H
-		.1	5.0	)	58	5.96	<u> </u>		14	16.0	M	10	5.9		6	0.34		}	8 8	36·2 33·7	R	
	388			40	) Sa	gittar	ii 7						<u>,                                     </u>	<u> </u>								-
	June 3	80	4.0	18	59	15.52	l	117	50	52·1	M	394		2	5 4	l <i>quilæ</i>	ω					
.	July 1	LO	4.0		59	15.54		-	50	54.4	м	July 9	1	19	12	2.53		78	27	00.5	1	
l		.1	4.0		59	15.20	•		50	51.7	м	Aug. 8			12	2.50		<b> </b> ′°	37 37	28·5 30·5	M R	
	Aug.		4.0		59	15.31			50	53.8	R	16			12	2.53			37	30.6	R	I
_	1	4	4.0	_	59	15.38	•••		50	55.6	R	24			12	2.50			37	29.2	R	li
	389			1	G 1	quilæ	`					27			12	2.51			37	28.9	R	l
	389			. 1	0 д	3	Λ.					Sep. 1			12	2.21			37	28.1	R	
;	July 2	3	8.6	18	<b>59</b>	48.10		95	3	55.3	м	17		М	12	2.25			37	29.9	M	
11	_	4			59	43.33			3	54.2	R									-		
	Sep. 1	.8 .5	3.2		59	48.81	•••		3	54.8	м	395	S	Sag	jitt	arii, I	7ar.	2.				
		8	4·0 3·2		59 59	43·05 43·12	•••		3 3	56.1	M	June 2	10.2	19	12	14: <b>3</b> 4		1.00		40 = 1	ì	Ⅱ.
-				<u> </u>		30 12	•••	<u> </u>		54.8	М	15	10.4	19	12	14.14		109		46·5 47·0	R	/
	390				17 A	lquila	eζ	•						<u></u>		13.13	•••	<u> </u>	14		, R	
	Aug. 1	5		18	59	45.36		76	19	4.2	R	396		57	D	raconi	<i>s</i> δ					
	_	1	•••		59	45.80			19	4.4	R	June 27	4.0	19	12	31.80	,	22	90	30.0	1	
	_	5	•••		59	45.30	•••		19	6.2	R	29	3.4	13	12	31.88		22	33 33	16·5 15·9	M	
'	-	8			59 59	45·38 45·44	•••		19	4.4	R	July 17	4.0		12	31.68			33	15.6	М	
-		٠	•••		<b>U</b> #	44 AA	•••		19	5.3	M	19	3.0		12	31.78		1	33	15.7	M	
	391		δ	Cor	ona	Aust	ral	s.				30	3.4	<u> </u>	12	31.96			33	16.2	М	
1	Aug. 2		5.0	18		46.98		180	41	6.1	R	20-		,	) ·	7 ***						
{	Sep. 2	- 1	5.4		59	46.97			41	7:3	м	397		٦	) · .	Sagitta	ırıı.					
		4	5·0 5·0		59	47.05	•••		41	7.2	М	June 28	3.5	19	13	47.47		134	41	17.1	м	
	2	-	5.0		59 50	46·92 46·95	•••		41	8.4	M	July 11	3.7		13	47.43				14.6	м	
-			00			-#U 90	•••		41	7:9		Aug. 9	3.2			47:38			41	16.0	R	4
	392		a	Cor	rona	.Aus	tral	is.				15 20	3·5			47·31 47·36				17·5 16·5	R R	
	June 1	5	4.5	19	1	<b>5</b> ·95		128	5	38.9	В		1			_, 55		<u> </u>		100		
	July 1	- 1	5.0		. 1	6.08	4		5	37.8	м	398			1 /	ygni	r					
	1	8	4.8		1	5.99			5	36.8	M				- (	88 100	~					1
	3	- 1	4.2		1	6·14			5	36.9		Sep. 14	4.5			15.40						11

Separate Results of Madras Meridian Circle Observations in 1877.

Number and Date.	r demin	павличие.	$\mathbf{A}$		Right sion 7.	No. of Wires.	$\mathbf{D}$	n Pristan 1877		Observer.	Num an Dat	d.	Magnitude.	Me A	ean l scer 187		No. of Wires.	D:	an P istar 1877		Observer.	
399			β	<sup>2</sup> S	agitta	rii.					40	5	-	6	Vul	pecul	æ a					
July 2	2   4	.3	19	14	19.71	l	135	1	43.8	м	Aug.	7	4.0	19	23	35.21	1	65	34	57.8	к	
Sep. 19	1	.0		14	19.88			1	45.5	М	nug.	14	4.0	10	23	35.24		00	35	1.9	R	
1	- 1	•5		14	19.84			1	44.7	М	Sep.		4.0		23	35.24			34	59.1	м	∥.
1/	5 5	.0		14	19.64			1	45.0	М		13	4.0		23	35.27			34	59.1	м	
18	8 4	.0		14	19.88			1	45.1	M		17	4-0		23	35.28			34	58·5	м	
400	· · · · · ·		46	Sa	gittar	iiυ					40	6		6 (	 Cuar	<i>1i β</i> —	$\cdot 1st.$					
	. 1		,		•	,	1			,				1			,	,			4	
Aug. 14	1	••	19		41.03	1	106	11	2.7	R	July		8.2	19	25	45.79		62	17	48.2	M	
2:	1	••		14	41.11			11	1.7	R		17	8.2		25	45.90	•••	ł	17	48.0	M	
26		•••		14	41·16 41·20			11 11	3·2	R	Ang.		3.0		25	45.83 46.07	•••	1	17	49.4	R	48.75
Sep. 2	.	•••		14 14	41.04		l	11	2.6	R		4 9	3.0	ŀ	25	3	•••		17	50.6	R	10
				11	41 04		<u> </u>		20	M			3.0		25	46.08			17	52.6	R	
401			ć	z Sc	igitta	rii.					40	7		6 (	Cyg	ni β–	-2nd	l.				
July 2	0   4	ŀ0	19	15	21.57		130	50	42.5	M	July	18		19	25	47.82	l	62	17	29.8	м	
Sep. 2	2 4	.0		15	21-79			50	43.3	M		20			25	47.83			17	31.0	M	
2	5 4	.0		15	21.55			50	44.1	М	Aug.				25	47.68			17	31.2	R	
2'	7 4	.0		15	21.83			50	42.0	М		21			25	47.83			17	31.7	R	
			·	,	0000		•			<u></u>	[	24			25	47.81			17	34.0	R	
402		•	Тау	ior	8907-	—2n	a.					25			25	47.72		ļ	17	34.3	R	H
Aug. 2	1 6	9.0	19	17	54.86		144	34	5.7	R	40	0			38.	1quila	,,					
2-	4 6	9.0		17	54.73		İ	34	5.3	R	1			•	<i>,</i>	14	, μ					
Sep.		9.0		17	54.83			34	3.6	R	July	19	5.0	19	28	4.61		82	52	48.8	м	
2	8   0	3·O	]	17	54.95			34	5.3	м		30	4.9		28	4.71			52	49.9	м	
											Sep.	1	4.2		28	4.75			<b>52</b>	49.0	R	
403			:	30 .	Aquilo	eδ					l	10	4.6		28	4.54		ĺ	<b>52</b>	50.0	М	1
Aug. 1	a l		10	19	17:65	ı	87	7	49.17	۱.		14	4.6		28	4.69		1	52	50.4	М	
Aug. 1	- 1	•••	1.0	19	17.70		07	7 7	43·7 43·2	R		_		۲n	C		: 10					
	~			19	17.71			7	43.9	M	40	y		02	Sal	gittari	<i>i Il</i> *					
_	_			19	17.76		-	7	43.4	M	Aug.	23	ı	19	29	13.20		115	9	11.4	R	
	8			19	17.78		]	7	44.4	M		25		-	29	13.20			9	11.9		
1:	9 .		İ		17.72	]			45.7	1	Sep.	3				13.29			9	11.4		
404			<u>.</u>		elesco	!	1		-	<del>!</del>	41			<u>!</u> ;	39 A		K	·			<u> </u>	
Aug. 2	2	4·0	·	20			145	01	33.5	1-	1		4.0			16.24		07	10	Ke.7	1	1000
Aug. 2	_		1.0	20 20		1	145	21			Aug.	14	4.0	1.9		16.42	l	97		56·1 57·3		15.28
Sep. 2	1		1	20		:::	1	21			Sep.		5.0			16.45				57·5		
Sep. 2		5·0	ł	20			1	21			Sep.	7	4.9			16.52				57.0		
2		5·0			35.49				35.4			8	4.5			16.27				57·1		
	- 1 -	. •															,		•			

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	M.	scen 187	Right sion 7.	No. of Wires.		ean I istar 1877	Polar ace 7.	Observer.	Numi and Dat	1	Magnitude.	h.	ean 187		No. of Wires.	M. I	ean Dista 187	Polar Ince 7.	Observer.	
	411			41 4	Aquilo	ει					417	,	· Catalana and ·	5	0 4	lquild	ľγ					
	Aug. 21		19	80	21.41		91	33	26.1	B	Aug.	14	۱	19	40	24.69	1	79	41	6.0	R	
	Sep. 15			80	21.17			33	27.0	м	-	15			40	24.64	1	"	41	5.6	R	
	17			80	21:34			33	26.0	м		27			40	24.80			41	5.7	R	
	18			30	21.38	٠		33	26.3	M	Sep.	22			40	24.58		1	41	5.8	M	
	22			30	21.26	,···	]	83	27.0	М	418			<del></del>	18	Cygni	8	<del>'</del>				
	412		Ra	ıdel	iffe 4	<b>4</b> 00.			•							oggni						
	Aug. 9	10.0	19	33	33·53	1	40	9	0.5	1_	July	- 1	3.8	19	41	7.48		45	10	4.3	М	
3.45	22	10.0	13	33	93·39 .	•••	40	3 3	3·7 4·5	R		16	8.9		41	7:60			10	6.3	м	8
	24	10.0		38	33.33	·••		3	7.4	R R	Aug.		3.2		41	7.69	1		10	6.7	R	7
	27	10.0		83	33.28			8	8.0	R		20 24	3.2		41	7.57		ł	10	6.7	R	
	Oct. 2	10.0	İ	83	33.34			8	4.1	1 1	·	24	3.2	<u> </u>	41	7:55	<u> </u>	<u> </u>	10	8.8	R	
	470		<u>,                                     </u>	10 /	~ <u>`</u>		<u>'</u>				419	•		i	4	4non.						
	413		•	IZ (	dygni	φ					Aug.	21	8.0	19	41	49.89	1	123	3	58.9	R	
	Sep. 27	4.9	19	34	31.17		60	7	44.8	м		1	8.0	1	41	49.93		120	3	59.3	R	
	Oct. 4	4.0			30.96			7	45.4	B.	-	24	7.9		41	49.78			4	0.1	M	11
	5 .	4.0		34	31.00			7	46.2	R		25	7.9		41	50.00			4	1.0	M	
	6	4.0			31.06	•••		7	45.1	R	Oct.	4	8.2		41	49.86	·		3	59.3	R	
.98	9	4.0		34	31.02			7	44.9	B.	420			· 7	Ç~	gittæ	2	'				
ı	414		5	Sai	gittæ	n.					<b>440</b>	,			Du	yiiiw	U					
- 1			·	, w	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	u .					Aug.	- 1	4.0	19	41	54.28		71	46	5.2	R	Il
-	Aug. 20	4.0	19	34	35.81		72	16	3.2	R		28	4.0		41	54.05			46	3.8	R	il
	25	4.0			35.78		•-	16	4.8	R	Sep.	l	4.3		41	54.08			46	5.9	M	
	Sep. 1	4.0			35.90			16	3.0	B		18	4.0		41	54.12		ĺ	46	5.9	М	
	3				36.03			16	4.6	R		21	4.5		41	54.31			46	4.9	M	
l	12	4.4		34	36.04	•••		16	4.6	M	421			7	ayl	or 90	9 <b>9</b> .					
į	415		· <b>v</b>	Tel	escopi	i.					Aug.	22 (	6.0	19	42	48.94		145	16	52.6	R	
3-18	Aug. 7	5.2	19	37	57-98	í	146	39	21.0	_	Sep.	12	6.0		42	49.10			16	54.0	M	
12	8	5.2		37	5 95		7.40	39	20.3	R		17	6.0		42	49:11			16	54.5	М	
	Sep. 13	5.9			58·19				1	R M	Oct.	2	6.0		42	48.90			16	55.6	R	
	14	6.0		37	58.02				21.2	M	. ]	10	6.0		42	48-91			16	53.4	R	
	28	5.2			58.03				24-1	м	422			T	ayl	or 912	25.			•	-	
	416		Lac	eail.	le 819	95.					July 1	17	8.0	19	-	9.35		56	52	9.2	м	
	Oct. 1	e.e 1	10		14.20				í		3	18	7.9		44	9.40		"	52	8.6	M	
	Oct. 1	5·5 5·5	TA .	აყ აი :	14.18		155				Aug.	7	7.8		44	9.41			52		R	9
	8	5.2	,	ບອ . 80- 1	14·32 14·23				13.3			9	7.8		44	9.49	·			10.7	R	1
8		"	•	. 00	L# 40	]		<b>54</b>	10.7	B	2	15	7.9		44	0.48			ro	70.0	_	1

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean F Ascen 1877 h. m.	sion K		an Poistan 1877	ce	Observer.	Num and Dat	d	Magnitude.	Me A h.	an E scen 187		No. of Wires.	D	an P istan 1877	ce	Observer.
	423	į	53 Aqui	læ a, A	ltair.				430	)		61	Sag	gittar	ii g.				
	Sep. 6	l	19 44	46.79	.   81	27	17:9	м	Aug.		5.2	19	50	58.29		105	<b>4</b> 8	55.9	R
	7		44	46.84	.	27	17.5	M	Sep.		5.9		50	58.29	•••		48	57.3	М
I	10		44	46.82	.	27	17:9	M		21 25	5.8		50	58.23			48	57.0	• м
	11		44	46.86	·	27	17.4	М		28	6·0 5·7		50 50	58·37 58·38			48 48	58·8 59·1	M M
	424		Lacai	ille 8224	<b>l.</b>				431		<del></del>	60	Sag	ittari	i A.	!			
	Oct. 5	5.5	19 45	57.03	.   159	29	1.0	R				,	_	9	1		٠.	0 H 0	.
	9	5.2	45	57.00	:	29	0.9	R	_	7 6	5·5 6·1	19	51 51	27·31 27·19		116	31 31	35·9 37·6	R
	***************************************	·	-i-t							17	5.8		51	27 19			31	36.4	M M
	425		ı Sa	gittarii.						18	5.7		51	27.45			31	37.4	M
		١			1			1	Oct.	2	5.2		51	27:27			31	38.2	R
	Oct. 3	4·5 4·5	19 46 46	46°25 46°01	- 1		23·6 25·1		432			· 5	21 /	Cygni	<u>^</u>	!			<del>'</del>
		<u> </u>	<del></del>								,				,	ı		•	.
	426		$\mu^{\scriptscriptstyle 1}$ 1	Pavonis.					July			19		41.59		55	14	32.8	M
	Oct. 1	5.5	19 48	23.38	.   157	16	14.8	R	Aug.	20			51	41.46 41.61	1		14	83.6	M
	4	5.6	48	23.44	1	16	16.7	1	Ť	16			51 51	41.58	4		14 14	32·3 36·1	R
	8	5.2	48	23.42	$\cdot$	16	14.1	R		21			51				14	32.3	R
	427		60 A	Iquilæ £	3				43:	3		12	2 Sa	ıgittæ	γ				
	Aug. 15		19 49	16.26	.   83	53	56.9	R	Aug.	20	4.5	19	53	16.82	<b> </b>	70	50	26.9	R
	23		49	16.22		53	55.6	R	Sep.		4.6	-	53	17:00			50	29.1	m
	Sep. 1		49	16.21 .		53	59.4	R		19	4.7		58	16.87			50	27.5	M
									Oct.	18	4.5		53	17:01			50	26.1	R
	428		59 Sa	igittarii	b.					19	4.5	<u> </u>	53	16.96	<u> </u>		50	28.1	R
2-	Aug. 9	5.0	19 49 49	23.66 .	1	29 29	38·7 41·3		434	<b>1</b> .		62	Sa	gittar	ii c				
	20	5.0	49	23.58 .		29	41.1		Aug.	8	4.5	19	55	51 5.44		118	2	58.3	R
	Sep. 13	5.2	49	23.65 .		29	38.3	м	Trug.	14		1.0	55	5.67	1	110	3	2.1	R
	22	5.0	49	23.76 .		29	39.4	м		22	4.5		55	5.61	1		3	1.5	R
							* ** · · · · · · · · · · · · · · · · ·	'	Oct.		4.5		55	5.52	1		3	2.4	R
	429		$\mu^2$ 1	Pavonis.					<u> </u>	3	4.5		55	5.64			3	2.1	R
	Sep. 27 Oct. 13	5·9 5·5	19 49 49		- 1	16 16	24·4 27·6		438	5			δΡ	avoni	ε.				
7	15	5.5	49	53.00 52 <del>.9</del> 5	1		24.3		Oct.	4	4.0	19	56	38.11		156	29	35.0	R
- 1	16	5.5	49	52 <del>-8</del> 5	- 1	16			""	5	4.0			38.14		100	29		R
+	17	5.5	49	52.93			25.2		I	13	4.0	ì		38.29				37.3	R

Separate Results of Madras Meridian Circle Observations in 1877.

	1	1 .	1	- D:-14	89	75		-1		<del></del>		1 76		Right	eg.	Mo	an P			Ï
	Number	Magnitude.	As	an Right cension	of Wires.		stan 1877	ce	Observer.	Number and	Magnitude.			sion	Wires.	Di	istan 1877	ce	ver.	
	and Date.	agn	1	1877.	No. of	,	10/7		hser	Date.	agn	1			No. of		10//	•	Observer.	
		×	h.	m. s.	2	•	<u>'</u>	"	0		2	h.	m	. 5.	=	•	,	*	0	
	436		0.	A. S. 20	266					442		6	Car	oricor	ni a	2				
,	Sep. 24	6.3	20	1 32.77	<b> </b>	105	22	57.5	м				_							
	25	6.2		1 32.65			22	59.4	м	Aug. 27		20		18.67		102	55	28.0	R	
	28	6.6		1 32.62			22	59.3	M	Sep. 1			11 11	13·73 13·62			55 55	28·2 29·2	It M	<u> </u>
	Oct. 2	6.8		1 32·66 1 32·82			22 22	58·5	R.	13			11	13.82	<b></b>		55	28.2	M	
		1 00			•••	<u> </u>		00 0	_ K	Oct. 1			11	13.74			55	28.8	R	
	437		0.	A. S. 20	269.					3			11	13.71			55	29.1	R	
			1		,					5			11	13.67	•••	i i	55	29.4	R	
	Oct. 1	9.0	20	1 52.32		105	46	8.3	R	19			11	13.67			55	29.7	R.	13.72
	5 10	9.0		1 52·12 1 52·22			46 46	8·0 4·9	R			0	^							
\$2.26		100	<u> </u>	1 02 24	1		70	70		443		8 (	Lap	ricorn	$i \nu$					
	438		0. 1	1. N. 200	<b>146</b> .	S.C	1422	July	١.	Aug. 8	5.0	20	13	50.52	l	103	8	39.3	R	50.56
	Oct. 6	10.5	20	2 55.79	ł	1 00		0.4	١	Sep. 6	5.4		13	50.39			8	39.4	M	
er d'e	8	10.5	20	2 55.79 2 55.65	:::	32	22 22	2·4 1·6	R	21	5.2	•	13	50.35			8	40.0	м	
S <b>⊆</b> -⊊8	. 18	10.5		2 55.47			22	0.3	R	22	5.3		13	50.30			8	40.3	М	·
164	15	10.2		2 55.67			22	0.8	R	24	5.2		13	50.28	•••		8	39.1	М	
·60 ·67	16	10.4		2 55 5			22	0.7	R				~							
.55	17	10.3		2 55.79			22	0.1	R	444		U (	Cyg	ni, Va	r 6	•				
57	18 19	10.3		2 55.57 2 55.64			21	58.0	R	July 20	9.2	20	15	45.50	1		••		,	
٠62	20	10.1		2 55.72			21 21	57·9 58·7	R	Aug. 3	9.1	40	15 15	47.58 47.78		42	29 29	35·0 35·4	M	(58)
	22	10.1	1	2 55.78			21	59.3	R	7	9.1		15	47.72			29	38.4	R R	47.68
									_	9	9.1		15	47.68			29	38.2	R	161
	439		65	Aquila	$\theta$					15	9.3		15	47.76	4		29	38.4	R	176)
	July 19	3.9	20	4 57.56	ſ	91	77	4.0	1											.65
	20	4.0	20	4 57.46		aī	11 11	4·8 5·3	M	445	0	A.	N.	20387	21	id.				1
	Aug. 3	3.5		4 57 54			11	4.8	R	T 1 00	مما	1		44	. 1			,		
\$7.48	. 7	3.2	l	4 57.45			11	7:2	R	July 30 Aug. 21	8.0	20	15 15	52·5 <del>1</del> 52·27		42	28	54.6	M	
<b>'</b> 52	8	3.2	<u> </u>	4 57.50			11	6.2	R	22	8.0		15	52.49			28 28	54·9 55·4	R R	
	440	,	T	:11 - 0000						Sep. 25	8.2		15	52.50			28	56.7	M	
4	440	4	Lacai	ille 8363	·—1.	st.				28	8.3		15	52.39			28	56.2	M	
2.80	Aug. 9	9.0	20	5 2.66		147	20	27.1	R										_	
	21	9.0		5 2.77				28.0	,R	446		٠ ;	37 (	Cygni	γ					
	Sep. 1 17	9.0		5 2.85				26.5	R.		ı									
		1 00	<u> </u>	5 2.69			20	28.7	M	Sep. 8.		20		48.85		50	8	8.9	M	
	441		Cordo	ba XX.	180	,				13 Oct. 1	"			49.03			8	8.1	M	
										3			17 17	48·96 49·06	•••		8	7.7	R	
	Sep. 18	8.8	20	5 15.08		147	12	18.8	ж	5	,		17				8 8	8·8 8·2	R R	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean Asce 187	ision	No. of Wires.		n Postan 1877.	ce	Observer.	Num an Dat	ıd	Magnitude.	Me A	an R scens 1877		No. of Wires.	Di	n Postan 1877.	CO	Observer.	
	447	1	0 Сарі	icorni	$\pi$			<u>'</u>		452	<u>'</u>		<u>'</u>	βP	avoni	s.				-	
	A		100 00	16·72	1	100	0.0	45-0		Sep.	18	3.0	20	38	51.33		156	38	34.5	м	
16.80	Aug. 7 27	5.0	20 20	16.84		108	36 36	47.9 47.6	R	•	20	3.0		83	51.19			38	33.3	м	1
	Sep. 1	5.0	20	16.80			36	48.8	R R	Oct.	1	3.0		33	51.17			38	36.0	R	
	7	5.9	20	16.65			36	49.0	M		2	3.0		33	51.16			38	35.7	R	
	18	5.2	20	16.77			36	49.0	M		3	3.0		33	51.20			38	35.6	R	
				pricor	1	J				453	 }		·	η	Indi.				<del>'</del>		
	448			priboor.	μυρ							,	,	,			,				
	Aug. 22		20 21	50.61		108	13	6.7	R	Aug.		5.2	20	35	0. 1 <del>2.</del>		142	21	31.8	R	0.23
	24		21	50.66			13	8.0	R		9	5.2		35	0.19			21	30.9	R	'31
	Sep. 22		21	50 71			13	8.3	М	_	21	5.2	1	35	0.14			21	30.8	R	ļ
1	Oct. 2		21	50.52		ļ	13	8.4	R	Sep.		5.2	1	35	0.16			21	29.2	R	İ
T.	4		21	50.56			13	7.7	R		12	5.9	<u> </u>	35	0.58	•••		21	30.7	М	
	13 20		21 21	50·55 50·57			13 13	8·3 7·2	R	45	4	:	50 C	'ygn	i a, 1	Dene	ь.				
1					<u> </u>	-			_	July	81		20	37	14:35	1	45	9	29.8	м	14.37
i.	449		1	, Indi.						Aug.			20	37	14.16	•••	40	9	31.1	R	.,
27.47	Aug. 8	5.5	20 25	27·86	1	134	55	54.7	R	Sep.				37	14.36			9	29.3	м	(I
.45	9	5.5	25	27.86	<b></b>	101	55	51.0	R	l Sup.	10		1	37	14.89			9	31.6	M	ĺ
•	20	5.5	25	27.50	4		55	51.4	R	ŀ	11			37	14.32			9	30.9	M	ll .
1	Sep. 12	5.7	25	27.59		÷	55	54.2	м	1	13	:::		37	14.22	•••		9	30.6	M	ll .
	15	5.9	25	27.64			55	52.8	M	٠	14	}	i	37	14.35			9	31.3	M	
1			1 20		<u> </u>	<u> </u>				1	15	···		37	14.43	•••		9	32.0	M	
	450		R. $I$	P. L. 1	143.					Ì	17		1	37	14.42			9	31.3	M	1
	100		44.								24		1	37	14.30			9	29.8	M	
51.51	Oct. 10		20 27	51.58	3	5	15	50.1	R		25			37	14.34			9	31.1	M	
50.88	16		27	51 <u>38</u>	3		15	53.5	R	Oct.			1	37	14 23	""	1	9	29.5	R	l
51.62	20		27	52:52	. 3		15	50.9	R			L	<u> </u>			1	<u> </u>				14.16
	111	'	R. P. 1	. 143	—s.j	v.				455	5		σΪ	Pave	onis—	-2nd					
1		ı	1.00 -							Aug.	27	4.5	20	37	37:68		159	13	26.5	R	
}	Jan. 31		20 27	51.81	2	5	15	49.7	R	Sep.		5.0		37	37.80		-55	13	26.4	M	
	Feb. 20		27	51.92	3	1	15	51.0	M	Oct.		4.5		37	37.62			13	25.7	R	(I
	22		27	52.35	3	1	15	52.7	M	""	5	4.5		37	37.63			13	23.6	R	
50.30	Mar. 19		27	51-75 0-67 51-54	.3	l	15		R		6	4.5	1		37.68	1			22.0		1
	28	<u> </u>	27	51 <del>·54</del>	3		15	52.1	R				<u> </u>			)	<u> </u>				
51.46	451			Indi.						45	6		12	Delp	oini y	18	t.				
54.37	Aug. 3	3.0	20 28	37 54:28		137	43	8.2	R	Aug.	. 9	7.0	20	40	56:37		74	19	4.4	R	
,	14		28	54.40			43	9.5	R		21	7.0		40	56.17			19	4.4	R	
44	21	3.0		54.19			43	6.9	R		22	7.0			56.24		}	19	4.3	R	
	Sep. 1	3.0	28				43	5.3	R	Sep.		7.0		40	56.35			19	4.1	м	
	17	3.0		54.47			43	6.8	м		22	7.0			56.26			19	3.8	м	
	1		1			1							1			1					1

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	ean Ri ascensi 1877.	ion   🗲	; ] '	n Pol stanc .877.	ar e	Observer.	Numl and Date	l	Magnitude.	As	n Rig consid 1877.	ght on s.	No. of Wires.		n Pol stance 877.	lar e "	Observer.	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19	Dolnh	ini γ—	2nd.				463	;			β In	di.						
	457		-	6.			0.0(		Aug.		4.0			1.04	'			58.9	R	
57.10	Aug. 10 Sep. 1	5·1 20		57·18 . 57·20 .	74	19 19	3.6	M R		1 18	4·0 4·0			1.13				58·6 59·9	R M	i
	Oct. 2	4.0		-0.01		19	4.8	R	Oct.	2	4.0			1.13			55	0.3	R	
56-47	8 10	4·0 4·0				19 19	3·0 2·0	R R	46	4		32	2 Vu	lpecu	læ.					
			<b>FO</b> .	C					Aug.			20	49	19.00		62		32.8	R	
	458		9 <b>3</b> (	Cygni e					Sep.					19·02 19·04				33.3	M	
13.83	Oct. 17	3.0 2	41	13.88	56	29	21.1	R	Oct.	28 1				19·05				32.2	R	
										6				19:11				32.7	R	10.11
	459		3 A	l <i>quar</i> ii	•				1	8 15				19·1 <b>6</b> 19·0 <b>\$</b>				33·8 34·6	R	19.14
	Aug. 14	4.0 2			95		35.4	R	ļ	17				19.14				32.5	R	.10
	Sep. 27 Oct. 3	4.3	41 41			28 28	35·4 35·4	M		19				19:10			24	33.9	R	108
	13	4.0	41	44.00		28	35.1	R		_		,	· Wie	rosco	nii					
14.78	16	4.0	41	14.75		28	34.7	R	46			,	, DI to		-	,				
			_	_					Aug	. 8 10	5·5 5·8	20	55 55	6.08 5:95 6.08		129	6 6	36·8 35·6	R	9.02
8	460	54	Cygn	iλ¹, V	ar. 5.				1	15	5.2		55	6.08	1		6	38.2	B	
4			20 42	16·20	1.	. ,	00.0	_	Sep		5.5		55	5.98	l		6	37.4	1	
16-14	Aug. 3	6.3	20 42 42	- 1	5	3 4 4		R	1	11	5.7		55	6.01	1	1	6	37.6	M	
	25	6.2	42			4		R	1 4	66			μ	Indi.						
	Sep. 25 Oct. 6	5.9	42 42	1		4		M R	1		١ ١	امما	•		,	( , ,=	10	40.0		
- 14	22	6.4	42	- 41		4		1	Au	g. 21 22	5.5	- 1	56 56	10.5	1	1	12 12		1	
	24	6.2	42	16.15		4	36.1	E	-	27	5.5	- 1	56	10.5	8	1	12	40.8	R	
			7.					-	Se	p. 13	5.8	- 1	56 56	10.5	- 1	1	12 12		1	
	461		a M	lie <b>ro</b> sco	pu.					17	5.	- I	90	10.5	7	• 1	12	کیو۔	, I at	
16.36	Lug.			2 16 <sup>.</sup> 76	4 1		3 <b>5</b> 9·	٠,	R 4	67			64	Cygn	iζ					
	11 000	5 4·5 9 4·5		2 16 <sup>.</sup> 5§ 2 16 <sup>.</sup> 6§		_	3 58 <sup>.</sup> .3 57 <sup>.</sup>	٦,	B S	p. 12	1 I	, 5	21 7	42:	11 )	60	0 16	3 36.	7 і м	
15.63	- 11	4	4	2 16.74			.5 57 13 59		R Se R	.p. 12	1	.   -	7			"		6 35		13
۰8۰		0 4.5	4	2 16.86	<u> </u>		13 59	4	R	18		.		42.				6 37		- 11
										2:	. !			7 42· 7 42·				6 36 <sup>.</sup>		11
	462			ı Indi.					1	2	5 .			7 42	21		10	6 37	·4 M	11
	Oct.	1   5.5		12 35·84 12 35·81		142	3 52 3 52			2 Oct.				7 41 7 41				6 36 6 37		11
		7   00	1 4	22 00 00	1 1		0 02	- 0 (	<u>^   `</u>	, , , , ,	-			, #T	00	J			- 1 18	

Separate Results of Madras Meridian Circle Observations in 1877.

	Numbe and Date.	Magnitude.	Me A	ean Right scension 1877.  m. s.	No. of Wires.		ean Poistan 1877.	ce	Observer.	Num and Date	d	Magnitude.	As	nn 1 cen 187 m.	Right sion 7.	No. of Wires.	D	n P istar 1877	ice	Observer.	
42·110 ·07 ·11		3	21	7 42·02 7 42·19 7 42·14			16 16 16	36·1 36·1 35·3	R R	473			$\theta^2$ .	Mic	roscoj	pii.					
.09	10	1		7 42.18			16	36.1	R	Aug.	8	6.0	21	16	33.89		131	31	57.4	R 3	4.00
1.99	19	9 '		7 42 <del>:02</del>		Ì	16	36.7	R	Sep.	11	6.2	:	16	33.65			31	58.3	м	•
<b>67</b>	2.		1	7 42.06			16	36.7	R		28	6.0	1	16	33.86			31	57.8	М	
10	2'	1		7 41 95			16	36.4	R	Oct.	9	6.0	1	16	33.76			31	58.1		33.80 .82
0.1	3:	l		7 12 07		<u> </u>	16	38.2	R		10	6.0	<u> </u>	16	33.45			31	56.8	R	.04
	468	- 1		Caprico						474	<b>1</b>			γ	Indi.						
36.77	Aug. 7	1	21	8 56·19 8 56·14		105	40 40	53·3 52·6	R	Sep.	17	5.7	21	17	28.20	,	145	11	25.0		
114	1:			8 56:08			40	54.8	M R	Sep.	27	5.4	1	17	28.15		140	11	25.7	M M	
	Sep.			8 56.20			40	52.5	R	Oct.	4	5.0	1	 17	27.99			11	25.1	R	
	1:	1 5.6		Š 56·24		į	40	53.7	M		6	5.0	1	17	27.97			11	24.0	R	
			<del></del> -		'					l	8	5.0		17	27-94			11	24.9	R	25:06
	469			$\theta$ Indi.									·						<u>`</u>		
ઇના		8 5.2	21	11 4:06		143	57	46.8	R	47	5		34	Caj	pricor	ni z				l	
	Sep. 25		i	11 5.00			<b>5</b> 7	48.3	M					•	,	•					
	28			11 5.06			57	48.9	M	Aug.	10	1.2	21	19	38.60		112	56	34.6	м	38-43
	Oct.			11 5.06 11 5.05	•••		57 57	47.1	R		16	4.0	l .	19	38.51			56	34.9	R	
İ	t.	,   00	<u> </u>		•••	<u> </u>	 	48.0	]ŧ	Sep.		4.4	1	19	38.53			56	33.8	М	
	470		$\theta^{_1}$		pii.						22 25	4·2 4·0	1	19 19	38·43 38·48			56 56	34·7 36·8	M M	
53.42	Aug. S		21	12 53.33	•••	131		40.9	R				2.101.22.								
	Oct. 2			12 53·10 12 53·18	•••		19	41.7	R	476	3		22	Aα	uarii	В					
	()000.			12 53 14			19 19	42.5	R R					7		1-				- 1	
	18			12 53:23				41.3	R	Sep.	12		21 9	25	4.90		96	6	41.7	M	
Į.					1.5						18	•••	2	25	4.84			6	40.3	М	
	471			γ Pavoni:	s.						20	•••	i .	25	4.85			6	39.7	M	
	Aug. 27	7 ( 3.0	21	16 15:00	١	155	55	16.8	1L		27		l	25	5.07			6	40.5	M	
	Sep. 1	,		16 14 97		-50	55	15.6	R		28	•••		25 25	4.94	•••		6	41.2	M	
	Oct. 1			16 15.11				15.9	R	Oct.	2 4		1	25 25	4·85 4·83			6 6	40.7	R	
	3			16 15:18			55	15.6	R		8		1	25 25	4.86				40.7	11	4.57
	5	3.0		16 15:11	•••		55	16.1	R		10		l .	25	4.34			6	40.3	R	.91
	450			1 Dagge	:						13		1	25	4.91			6	41.1	R	
	472	_ 1	1	1 Pegasi							15		1	25	4.87				41.1	R	
23.82	Aug. 7	_	21	16 23.88		70	43		R		17	•••	1	25	4.92				41.0	R	<b>.</b> 94
	18 20	1	1	16 23·81 16 23·93	•••		43	16.0	R		22	•••	1	25 05	4.84			6	42.4	R	ice
	Sep. 18			16 23.69	•••			16·9 15·4	R M		25 27	•••		25 25	4.95			6 6	40·0 40·2	R R	189
	20			16 23.55				14.2	M	Nov.		•••	l .	25 25	4.86				39.8	R	,
l,										01.	-	•••	<u> </u>		- 00	•••			30 0		

 ${\it Separate Results of Madras Meridian Circle Observations in ~1877}.$ 

N	Numl and Dat	i	Magnitude.		As	an I ceni 187		No. of Wires.		Dis	n P stan 1877	olar ce.	Observer.	Num and Dat	d	Magnitude.	A	ean I scen 187 m.	7.	No. of Wires.		an P istan 1877	ce	Observer.	
	47	7		-	39	Caj	price	rni	E					483	3	9	Pis	scis	Aust	trali	sι				
A	ug.	10		2	21	30	11.4		11	0	0	57:8	м	Sep.	1	4.2	21		36.93	1	123	35	8.3	R	
		20				30	11:24	i			0	58.4	R.	Oct.	5	4.5		37	36.82			35	11.4	R	1, ,
		21				30	11.5	.   •			0	58.6	R.	NT	10	4.5		37	36·91			35	8.4	R	36.9
8	ep.	1					11.2	1			0	57.7	R.	Nov.	7	4·5 4·5		37 37	36.58			35	8.8	R	
_		14				80	11.5	)			0	59.0	M		7	4 5	<u> </u>	31	30.90	· · · ·	1	35	9.4	R	'
	478	В				A	inon							484	4			8 <i>P</i> e	egasi	$\epsilon$					
	Oct.	16	9.0	1:	21 -	30	19.3	٠١	18	33	59	2.9	R	Sep.	5		21	38	8.73		80	41	15 <sup>.</sup> 5	M	
1		<u> </u>												Oct.	24			38	8.63		ļ	41	16.2	R	
	479	9			41	Ca	pric	rni						48.	5		·		Indi	<del></del>	<del></del>				
I A	lug.	27	5.0	1	21	35	0.5	3	11	3	49	5.2	R				1			1					
S	ep.	15	5.9			35	0.0	)			49	4.2	M	Oct.	1	2.2	21	40	20.96		160	12	5.4	R	
		21	5.2			35	0.8	3			49	5.1	M	40		7/	O 70.		Aus	4 7.	- 0				
H		22	5.0	- 1		35	0.2				49	3.7	M	48		. 1	y E	เรษเร	Aus	tran	8 0				
		25	5.0			35	0.1	3			49	6.0	M	Sep.		5.2	21	40	30.85		127	27	59.4	M	
			-		40	<u> </u>								Oct.	3	5.0		40	30.92	1 4		28	0.6	R	
	480	0		4	#3	Caj	orico	rnı	к						4	5.0	į	40	30.93	-1	1	28	1.2	R	
Į A	lug.	21	5.0	2	21	85	47.40	i	10	9	25	33.2	R		8	5.0		40	30.92	. 1		28	1.6	R	30
0	Oct.	1	5.0	-		35	47:38	3			25	33.7	R		17	5.0		40	30·7¥		1	27	58.8	R	
		3	5.0			35	47.4	3			25	33.1	R		_				Y						
_		4	5.0	1		35	47.4	51			25	33.1	R.	48	7			γυ	Fruis	• .					
		8	5.0			<b>3</b> 5	47:4	i			25	33.4	R	Aug.		3.0	21	46	28.35	i	127	56	33.0	R	
	48:	7		77			. 77		,					Sep.	1	3.0		46	28.47	1		<b>5</b> 6	31.7	R	
	<b>TO</b> .	-	,			<sub>l</sub> gn	i, V		·.				,	١	15	4.0	l	46	28.45	1		56	32.8	M	
C	Oct.		10.2	1		36	53.1		4	7	43	11.7	R	Oct.	2	3.0		46	28.37			56	35.0	R	
-		17	10.8				53.2	<u></u>			43	10.3	R		3	3.0		46	28.44	• • • • •		56	34.0	R	ll .
,		18	10.8	- 1		36	53· <del>0</del>	3 )			48	10.0	R	48		•		16	Pega	oi					
•		20	10:8	- 1		36	53·0		- 1		43	11.8	R			1	ı								
		22 25	10.4			36 26			1		43	12.2	R	Sep.			21	47	27.77	- 1	64	39	10.6	M	1
		25 27	10.5	- 1		36 36	52·9 52·9				43	12.5	R	0.4	25			- 47	27.78	- 1		39	11.3	M	
		31	10.5	- 1		36					43 43	11.3	R	Oct.	5 18		1	47	28.07			39	12.2	R	
N	Tov.		10.4	- 1		36	53 0 52 9				43	8·8 10·6	R R	Nov.	_	•••		47 47	27.99 27.90	<u> </u>		39	10.7	R	27
-   ~		2	10.5	- 1			52.9		1			10.5	1	1,00	6	""		47	27.0	<u></u>		39 39	10.3	R	8.
-				1	<u> </u>			+						-		1	<u> </u>	47	21-00	· · · ·	1		9.2	R	8
	482	3		,			non		,					489	•			71	Indi						
0	ct.	2	9.2				17.3			7	44	22.1	R	Sep.	13	5.7	21	47	35.1	3	148	28	52.0	м	
		6	9.3			37	17:3				44	21.4	R.	Oct.		5.5		47	34.9	3			51.9	R	
		9	9.2			37	17:4	۱ ]			44	22.8	R		10	5.2		47	34·90 35·2	<u> </u>		28		R	35.
		13	9.5			37	17:43		.		44	20.5	R		15	5.2		47	35.0	<b>i</b>		28	52·4	R	
11		15	9.5	1		3 <b>7</b>	17:4	١			44	22.5	R		17	5.2	1	47	35 Q	<u>د.</u> ا	1		50.7	R	.

#### Separate Results of Madras Meridian Circle Observations in 1877.

Num' an Dat	d	Magnitude.	A		Right sion 7.	No. of Wires.	Di	an P istan 1877	ce	Observer.	Num an Da	d	Magnitude.	Mo	scer 187	Right sion 7.	No. of Wires.	$\mathbf{D}$	an P istan 1877	olar .ce	Observer.
490	)			δ	Indi.						Oct.			21	59	27.88		90	55	0.1	R
~			1			ı	1					22			59	27.94			55	1.1	R
Sep.		5.0	21	49	32·68		145	34	35.6	M		25			59	27.96			55	0.0	R
Oct.	8	5.0		49	32.0 <del>8</del>			34	33.7	R	Nov.	2			59	27.90			54	59.1	R
	20	5.3		49				3-1	35.7	R											
	24 25	5.0		49 49	32.02			34 34	34·9 32·9	R	496	;		2	2 F	egasi	ν				
	25	5.0	l <b>.</b>	49	91 9-B		J	04	02 0	R 	g <sub>an</sub>	10	1	21	59	28.66	1	or	20	90.5	
<b>4</b> 91				K l	Indi.						Sep. Oct.	3		21	59	28.68		85	32 32	30·5	M
TO L	•			/.							1766.	4			59	28.71			32	31.2	R
Sep.	11	5.6	21	49	47:24	6	149	35	50.8	M		8			59	28.62			32	31.0	R
Oct.	1	5.0		49	47:18		į	35	51.1	R		10		Ì	59	28:65			32	31.0	R
	9	5.0		49	47 3			35	51.9	R				<u>l</u>					-	OL ()	
	16	5.0		49	47:18			35	50.5	R											
	22	5.0		-49	17:19			35	52.6	R	497	•			a	Tucan	æ.				
49	0	12	Pis	ecis	Aust	rali	S m				Sep.	11	3.6	22	10	3.65		150	52	20.0	M
												12	2.0		10	3.60			52	19.7	M
Aug.		5.0	21	53	45.86		119	2	35.2	કા		13	2.2		10	3 61	•••		52	18.4	N
Sep.	1	5.0		53	45.80		Ì	2	32.9	R	Oct.	2	2.0		10	348			52	19.7	R
	14	5.0		53	45.99		1	2	34.7	M		4	2.0		10	3.62			52	19.6	R
Oct.	2	5.0		53	45.94			2	35.9	R		W. 1944 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1									
	3	5.0		53	46.01		ļ	2	36.0	R	49	R		4.	A	quarii	θ				
	4	5.0	<u> </u>	53	46.03		1	25	36.4	R			,	,							
49	3			$\kappa^2$	Indi						Sep	18 28		22	10 10	20.59 20.46	•••	98	23	40.2	M
Oct.	1	5.2	21	57	11:70	l	150	13	50.0	R	Oct.	3			10	20.52			23 23	40.4	M
Oct.	13	5.5		57	11.79		1	13	49.6	R	Oct.	5			10	20.39			23	40.0	R
	15	5.2		57	11.80			13	48.8	16		10			10	20.40			23	41.8	R
		5.5		57	11.85			13	46.8	R	1	13			10	20:42			23	40.8	R
Nov.	.,	5.5		57	12.00	<b></b>		13	46.2	R		17			10	20:40			28	42.7	R
Nov.	7						1	***		١		20			10	20:48			23	42.3	R
Nov.			-								•						.		23	40.7	R
	; -			λ	Gruis.					,		24			10	20.28					R
49	4		[91			ı	120	g	10:4	M					10 10	20·58 20·55			23	42.1	IV
<b>49</b> Sep.	<b>4</b> 13	5.0	21	58	41:77		130	8	10.4	M R.	Nov.	24 31							23 23	42·1 41·8	
49	<b>4</b> 13 5	5.0	21	58 58	41.77 41.65		130	8	11.1	R	Nov.	24 31			10 10 10	20.46 20.46 20.44					R
<b>49</b> Sep.	13 5 17	5·0 5·0	21	58 58 58	41.77 41.65 41.54		130	8 8	11·1 10·4	R R	Nov.	24 31			10 10 10	20:55 20:46			23 23	41.8	R
<b>49</b> Sep.	13 5 17 18	5·0 5·0 5·0	21	58 58 58 58	41.77 41.65 41.54 41.68		130	8 8 8	11·1 10·4 10·2	R R R	Nov.	24 31 1 3			10 10 10	20.46 20.46 20.44			23 23	41.8 40.7	R
<b>49</b> Sep.	13 5 17	5·0 5·0		58 58 58 58 58	41.77 41.65 41.56 41.66 41.75			8 8 8	11·1 10·4	R R R	Nov.	24 31 1 3 6		And the state of the state of	10 10 10 10	20.46 20.46 20.44			23 23	41.8 40.7	R
<b>49</b> Sep.	4 13 5 17 18 24	5·0 5·0 5·0		58 58 58 58 58	41.77 41.65 41.54 41.68			8 8 8	11·1 10·4 10·2	R R R	499	24 31 1 3 6			10 10 10 10	20.46, 20.44, 20.44 20.44	  		23 23 23	41.8 40.7 39.7	R
49 Sep. Oct.	13 5 17 18 24	5:0 5:0 5:0 5:0		58 58 58 58 58	41 · 77 41 · 65 41 · 56 41 · 66 41 · 75 Aquan	ii a		8 8 8	11.1 10.4 10.2 11.3	R R R	1	24 31 1 3 6	4.4	22	10 10 10 10 51	20.46 20.44 20.44 20.34 20.34 Grui	  	134	23 23 23 23	41.8 40.7 39.7 25.9	R
49 Sep. Oct.	13 5 17 18 24	5:0 5:0 5:0 5:0 5:0		58 58 58 58 58 58	41 .65 41 .65 41 .66 41 .75 41 .75 41 .75	ii a		8 8 8 8	11·1 10·4 10·2 11·3	R R R R	<b>499</b> Sep.	24 31 1 3 6	4.4		10 10 10 10 δ <sup>1</sup> 21 21	20.46, 20.46, 20.44, 20.44 Grui 54.61 54.61	s.		23 23 23 7 7	41.8 40.7 39.7 25.9 23.8	R R R
49 Sep. Oct.	4 13 5 17 18 24 24	5:0 5:0 5:0 5:0		58 58 58 58 58	41 · 65 41 · 56 41 · 56 41 · 75 41 · 75 A quar 27 · 66 27 · 79	ii a		8 8 8	11·1 10·4 10·2 11·3 59·5 59·2	R R R R	499	24 31 1 3 6	4.4		10 10 10 10 51 21 21 21	20.46 20.44 20.44 20.34 20.34 Grui	s.		23 23 23 23	41.8 40.7 39.7 25.9	R

Separate Results of Madras Meridian Circle Observations in 1877.

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	Number and	Magnitude.	As	an R cens 1877		of Wires		n Po stanc 877.		Observer.	Number and	.	Magnitude.	Me A	an R scens 1877	ion	of Wires.	Di	n Po stanc 1877.		Observer.	
.	Date.	Mag	h.	m.	s.	No.	۰	,	"	Ops	Date		Mag	h.	m.	s.	No. 6	•	,	"	Olus	
	F00			82	Grui	S.					504		•	6	2 <b>A</b> q	uarii	η			1		
1	500			Ü		1					Oct.	2		22	<b>2</b> 9	2.07		90	45	4.5	R	
22.03	Oct. 2	5.0	22	22	23.97		134	22 22	39·7 39·1	R		4			29	2-06			45	2.7	R	
23.43	8 15	5·0 5·0		22 22	24.1			22	41.6	R		9 15	•••		29 29	2.03			45	5.5	R	2.03
24.13	18	5.0		22	23.9			22	40.4	R	1	16	•••		29	2.14	•••		45 45	3·7 3·8	R	1.99
3.93	Nov. 6	5.0		22	23.33 24.01	ı		22	39-1	R	l .	18			29	2.06			45	3.4	R	' ' '
		1	<u> </u>				٠			<u></u>		22			29	2.05			45	5.4	R	
1	501		R.	P.	L.	150.					1	27	•••		29	2.13			45	4.0	R	-11
	301		,								Nov.	1	•••		29	$2\cdot \mathring{1}$			45	2.3	R	٠0٦
	Sep. 10		22	22	49.06	i	4	30	41.4	M		3			29	2.08			45	2.8	R	02
	17			22	49.4	- 1	1	30	42.2	M		7 10	•••		29	2.07			45	2.3	R	.06
	27			22 22	48·9:	1	1	30 30	41·7 42·1	M R	1	10 17	•••	1	29 29	2.04			45	2.1	R	.07
	Oct. 1			22	49.5	1		30	43.2	R	1	19			29	2.09			45 45	3·5 3·3	M M	
		1					<u> </u>			1.	j	20			29	2.05			45	3.4	M	
			ם	ום	Z. 150	0 0	40															
	·		n. 1	r. 1	1. TO	US	p.				508	5	1	8 F	isci	s Aus	tral	is ∈				
	Mar. 22		22	22	49.8		4	30	45.0	R			1	1			ſ	1 .				
	Apl. 4			22	49·2 50·3 48·8	§ 3	1	30	45.9	R	Sep.	1 5	4.0	22	33	50.87		117		7.2	R	1
51.32	14			22	50.3	1 3		30	46.4	1	Oct.	о 1	4.5		33 33	51·03			41 *41	3.9	M	
50.10	27	<u> </u>		22	48-8	8 3	<u> </u>	30	45.8	R		5	4.0		33	50.96			41	4·9 5·1	R	
												6	4.0	1	33	51.05		l	41	3.8	R	
	502		R	. <i>P</i>	. L.	151.					1		<u> </u>				J	<u> </u>			)	
		1	1.00	20	10.0	ما .	1.		<b>.</b>	. 1 .	50	6			β	Gruis						
	Oct. 6		22	23 23		3	1	28 23	51·5	1			1	1.			1	,				
	31			23	15 1	3 3	1	23	49.5		Oct.	3 4	3.0	22		18.77		137		39.3	R	H
16.43	<del>-</del>										-	8	3.0		35 35	18·76 18·65			31	39.5	R	18.70
	ÍI.		_	_								9	3.0		35	18.64			31 31	37·3 36·2	R R	11
			R.	Ρ.	L. 18	51.—	s.p.				Nov.	7	3.0		35	18.92			31	36.6	1	63
	Mar. 24	1	22	23	16.7	5 3	1 4	23	54.2	R			1	·			1	1			1	
	Apl. 10			28			-	23			50	7			42	Pegas	iζ					
	17			23	16.5	32 3		23	53.		1	_		1 -		_	,	,				
	-,						·			1	Sep.			22		19:36	1	79		35.1	М	
	503	1	7 P	isei	e A11	etral	lis B				Oct.	22 25	""		35 25				48		M	
	303			v0 U # 6	s Alle	ovi wi	,,,,				000.	31		1	35 35				48 48			10.5
٠.	Oct. 5	4.0	22	24			.   122	58	34.	3   R	Nov				35	19:56	! }		48 48	37·4 36·0	R	19.53
30.45	17	4.0	- 1	24	30.	.   <del>g</del>		58				10		l	85	19.54	۰۰۰ ۱۱	-	48	36·5	1	.6.1
55	20	4.0	ı,	24		5 <b>1</b>	.	58	34			12			35	19-63			48			162
-48		4.0	- 1	24			-	58				16			35	19-61		1	48		1	
-23	12	4.0		24	30.		· [	-58	33.	5 R	Dec.	4			35	19.64	<u>ا</u>		48		R	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Me A	ean ] scen 187 m.	Right sion 7.	No. of Wires.	Mo D	ean I Dista 187	Polar nce 7.	Observer.	Num an Dat	d	Magnitude.	M A	ean 187 m.	Right sion 7.	No. of Wires.		an F istai 1877	olar nce '.	Observer.
	508		4	4 P	egasi	η					Nov.		9.3	22	45	6.7 <del>8</del>		102	41	8.8	м 6
	Sep. 11	3.2	22	37	14:06	<b> </b>	60	25	19-2	М		20	9.3		45	6.6 <u>F</u>			41	10.7	M
	17	3.4		37	14.18			25	20.0	M		21	9.3		45	6.26			41	10.3	M
3.98	Oct. 10	3.0		37	14:02			25	18.3	R		23 26	9·1		45 45	6·72 6·70		ļ	41 41	9·1 8·7	M
'	13	3.0	-	37	13.84			25	21.1	R		27	9.0		45	6.8 <del>1</del>			41	9.4	M M
	15	3.0		87	14.13			25	18.4	R				[		0.01			701.	3 4	
	509			$\epsilon$	Gruis	٠.		-			51	3		7	3 <b>A</b>	quari	ίλ				
	Sep. 1	4.0	22	41	6.88	į	144	57	46.4	R	Nov.	16	1	22	46	11.52	١	98	14	0.3	W .
	10	4.0	ļ.	41	6.85			57	47-6	M				Ţ			<u> </u>				
	21	1.0		41	6.88			57	47.5	M		_			-,	,					
	Oct. 2	1.0		41	6.85			57	48.1	R	514	4			14 /	1quar	u.				
	3	4.0	]	41	6.84			57	47.2	R	Oct.	10	6.6	22	4.7	()· <del>[4)</del>	l	102	16	13.5	R 0
				4								20	6.8		47	0.22			16	12.5	R
	510				non.		,		-			22	6.8		47	0.38			1.6	12.4	R
24	Oct. 8	10.0	22	42	17:23	4	102	28	38.5	R		24	6.9		47	0.32			16	9.1	R
15	13	9.8		42	17 25			28	39.3	R		25	6.8		47	0.33	•••		16	9.4	R
1	16	9.9			17.14	•••		28	35.1	R											
20	18	9.6		42	17.28			28	37.9	R	515				75	1quar	ii				
	22 25	9.4		42 42	17·35 17·13			28 28	38·9 36·7	R	313		•			ig war	<i>uo</i> .				
. 12-	Nov. 7	9.8	ľ		17:11			28	35.1	R	Sep.	28	7.9	22	<b>4</b> 7	37.82		102	50	35.6	м
.03	12	9.5		42	17.21			28	35.9	R	Oct.	1	7.8		47	37:78			50	34.6	R
.11	30	9.8		42	17 39			28	35.4	R		5	7.6		47	37.75			50	<b>3</b> 5·8	R
123	Dec. 3	9.8		42	17.27	1		28	36.6	R		.1	8.0		47	37.71			50	34.9	R
						1	١					9	8.2		47	37.73			50	33.7	R 3
	511		La	ular	ide 44	16 <b>3</b> ;	<b>.</b>					13	7.8		47	37.74			50	35.8	R
43	()ct. 9	8:3	22	42	57:43	1	101	59	58:3	R		15	7.9		47	37.89			50	34.7	R
43	15	8.0		42	57 68			59	57.9	R		16	7.9		47	37.0£	•••	Ì	50	34.2	R
70	17	8.0		42	57.68			59	55.9	R		17 18	7 9 8·2		47 47	37.93 37.7X			50 50	33·2 35·2	R
.65	20	8.2		42	57.62		! !	59	57.5	R		10	0.		41/	97 7K				50 3	R
	24	8.5		42	57.63			59	56.8	R				_							
48	27	8.3	1	42	57:49		İ	59	57.5	R	51	6		7	6 A	quari	ιδ				
126	31	8.4		42	57·31			59	56.4	R			l	1		1	ı	1		1	
127	Nov. 1	8.2		42	57.32			59	59.2	R	Sep.	1	3.0	22	48	7.11		106	28	26.1	R
.37	3	9.0		42	57 12	5		59	57.0	R		17	3.3		48	7.07			28	27.2	м
٠3٦	6	8.2		42	57 44			59	54.8	R	Oct.		3.2		48	6.98 7.01	•••		28	27.8	R 6
	512	W	. В.	. E.	XX	II. :	918.				Nov.	31 1	3.3		48 48	7:00			28 28	28·0 26·3	R R
	Oct. 3	9.8	22	45	6.67		102	41	10.7	R											
	5	9.3		45	6:59			41	10.6	R	51'	7 9	24 Pis	cis	Aus	tralis	α.	Fom	alh	aut.	
	6	9.2		45	6.60	l		41	8.8	R	01										
.49	Nov. 10	9.3		45	6. <del>52</del>			41	8.2	R	Nov.	28		22	50	51.07		120	16	26.9	M S

Separate Results of Madras Meridian Oircle Observations in 1877.

	Number and Date.	Magnitude.	Asc ]	n Ri censi 1877. m.	ight ion	No. of Wires.		n Po stan 877.	lar ce	Observer.	Numbe and Date.	or	Magnitude.	_	n R ens 877 m.	ion	No. of Wires.	Di	in Poistano 1877.	36	Observer.	
	518	W	. <i>B</i> .	<i>E</i> . 3	XXII	. 112	29.				522		54	Peg		a, M	arko	zb.				
	010										Nov.	- 1	[:			38· <b>63</b>		75	27	22.4	R	38.13
	Oct. 1	9.8	22	55	2.02		102	44	34.2	R	1	- 1				38.03			27	24.6	Ж	.06
	2	9.3		55	2.03					R	1	9			58 58	38.07 \$0.88	•••		$\frac{27}{27}$	25.3	M M	7.96
1	5	9.3	i	55	1.96				34.7	R.		10				38.08			27	23.1	M	8.09
	<b>6</b> 9	9·2 9·3	}	55 55	1.98			44	33.5	R		21				38.07			27	25.2	M	.
1.824	10	9.3	1	55	1.81			44 44	35·1 34·9	R R		22				38.00			27	24.5	M	
· "~	13	9.3	1	55	1.76			44	34.9	R	8	30		ŧ		38.10			27	21.7	R	
1	15	9.3		55	1.98			44	34.1	R	Dec.	3			58	38.03			27	21.7	R	.03
1.83	Nov. 7	9.4		55	1 90				31.5	R		4			58	38.01			27	22.1	R	.02
.74	10	9.3	Ì	55	1.7%			44	32.7	R		6	]		58	37.9\$	•••		27	22.2	R	7.96
											523	3		Lal	lane	de 45	213.	,				
	519		0.	$\boldsymbol{A}.$	S. 22	573.					Sep.	13 (	8.3	23	0	57.97	1	102	28	15.2	М	11
		١.,	1		8	1					Oct.	2	8.0	~~	0	57.81		102	28	14.0	R	
14.08	Oct. 16	9.0	22		14:03	1	110	2	35.7	R		5	8.1		0	57.92			28	15.4	R	
.16	20 22	9.4		56 56	14.13			2	35.8	R		6	8.1		0	57.73			28	13.3	R	
25	24	9.5	1	56	14·13 14·22	3		2	35.6	R		9	8-2	1	0	57:90			28	14.0	R	
-19	25	9.3	1	56	14.20			2	32·6 37·1	R		10	8.2		0	57·9 <b>ž</b>			28	12.1	R	67.95
.24	Nov. 12	9.4	ì		14.26	. 1	1	2	35.8	R		13	8.2		0	58.05			28	15.8	R	1
-4		]	1			1	'					15	8.0		0	57.90			28	16.4	R	58.02
			_		_	_						20	8.5		0	57.80	1		<b>2</b> 8	14.7	R	
	520		1.	And	lrome	dæ d	•				<b> </b>	24	8.2	]	0	58.00	]		28	15.6	R	-
*	Sep. 10	4.0	22	56	15.69	1	48	20	4.2	м	524	4		0.	A.	S. 22	620					
-	11	4.4		56	15.58			20	4.2	м	Oct.	16	9-1	23	1	30.8€	il	109	52	14.3	R	30.91
15.53	Oct. 27	4.2		56	15·ૠૢૻ			20	5.6	R	i	17	9.0		1	30.9	<u></u>		52	13.9	R	.94
.21	31			5 <b>6</b>	15.43			20	3.2	R		18	9.3		1	30.85	/		52	14.0	R	187
	Nov. 1	4.2		56			ł	20	5.2	R		22	9.4		1	31.0	. 1		<b>52</b>	12.9	R	1.06
												25	9.3		1	30.8			52	14.5	R	0.83
	521	Ţ	V.B	. E.	XXI	IT. 19	204.				Nov.	6	9.5		1	30.8	1	<u> </u>	52	15.3	R	0 .88
							- 0 2.				52	5		La	laı	rde 4	5504	¥.				
	Sep. 21	8.3	22	58		3	102	50		M	Sep.	17	8.0	23	8	55.8	3 /	10	2 14	8.8	М	
,	22	8.0		58		1		50		м		18	7-9		8				14		м	
,	25	8.3		58				50				21	8.0		8		•		14	4.1	М	
	27	8.2		58		1		50		1		22	7.9		8		- 1	.	14		1	
	Oct. 3	8.1		58 59				50			1	27	7.9		8		١.		14		1	.
	Oct. 3	8.6		58 58				50		1	0.4	28	7-9		8		^	l l	14			
2.41	8	8.3	1	58				50 50			Oct.	1 3	7·9 8·0		8			- 1	14		i	
2.95	17	8.0		58	3			50			1		1	1.				- 1	14 14			
·83 ·49		1 0 0		UC	2.86	9				R		4	8.2	1	8	55.8	8 J				R	

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Me A:	an I scen 187 m.		No. of Wires.	Di	n Pestan	ce	Observer.	Numb and Date	. '	Magnitude.	As	nn R scens 1877 m.		No. of Wires.	Di	an Poistand 1877.	lar	Observor.	
	526	W	В.	E.	XXII	I. 1	43.				531			S. P.	egas	si, Va	ir. 5					
	Sep. 11	9.3	23	9	20.81		101	42	49.3	M	Oct.	6	10.3	23	14	18:99	:	81	45	14.2	R	
- 1	Oct. 2	9.3		9	21.01			42	50.2	R		9	10.5		14	18:99 18:48 19:16		•		14.8	- 11	18.98
	5   9	9·3		9	21.09	•••		42	50.7	R		13	9.9			19.10				11.5	R	
20:87	10	9.3		9	20.86	 3		42 42	49.4	R		15	9.9			19.03	]			10.2	11	9.03
	13	9.0		9	21.11			42	48·6	R		16	10.0		14	19.08			45	10.1	R	.54
	15	9.0		9	21.11			42	49.6	R		18	10.5			19.10			45	11.1	R	.19
1-10	16	9.3		9	21.06			42	49.4	R		31	10.0			19.17			45	11.1	R	-22
1.1.	18	9.3		9	20.98			42	49.2	R	Nov.		10.4			19.15	4		45	11.1	R	13
. 11	20	9.3		9	20.96			42	48.9	R		10	9.9			18-99			45	9.8	R	7.05
11			<u></u>				1					12	9.8		14	19.10	•••		45	10.9	R	
	527	,	,	$\gamma$ 1	ucana	ę. '	,			,	53:	2		La	lan	de~45	708.					
4.18	Dec. 11	4.0	23	10	14.48		148	54	34.9	R	G	10	8.1	23	1.4	00,00	ſ	101		70.0		
1.90	12	1.0		10	14-21	4		54	35.8	R	Sep.	25	8.2	25	14 14	28·38 28·40	1	101	12 12	18·8 21·4	Ж	
, 131 15	13	4.0		10	14.51		}	54	35.8	R	Oct.	25 1	8.0	ļ	14	28.65			12	20.1	M	
			,	• 70	: :						000.	3	8.3		14	28.62	ì		12	20.8	R	l
1	528		,	P	iscium	γ					1	5	8.2	İ	14	28.61	1		12	20.3	B	l
	Nov. 16		23	10	47:27		87	23	22.1	м		20	8.2		14	28.62	• i		12	19.4	R	25.64
1	** 44 4 11 184 48 48 48 48 48 48 48 48 48 48 48 48 4		·			<u>'                                    </u>	<del></del>			<del></del>	Dec.	4	8.2		14	28.42	11		12	20.6	R	. 3
	529		La	lar	rde <b>4</b> 5	582	•				Ì	10	8.2		14	28.41			12	19.0	В	3
	Sep. 13	7.9	23	11	14.81		102	23	4.6	M	}	11	8.3		14	28.52		1	12	18.2	В	
.11	Oct. 17	8.0	1	11	14·68		1	23	4.0	R	1	12			14	28· <b>61</b>	4		12	19.1	В	' 5
1001	22	8.0	1	11	14.88			23	4.5	R.			·				·				<u>  </u>	
1	24	8.2	1	11	14.81			23	6.2	R	53	3		Lc	ılar	ide 4	5777	•				
-87	27	8.3		11	14.83	3		23	4.4	R			0.1	02	16	27.45	. [	101	06	51.1	1 -	
160	Nov. 3	8.2		11	14.68		1	23	4.3	R	Oct.	2	8.1	23	16 16	37.47	1	101	26 26	50.5	R	
+321	7	8.2		11	1.1.74			23	1.8	R	1	4	8.2		16	37·50	7		26	51.1	R	37.
, ,	21	7.9		11	14.73			23	5.7			17 . 22	8.2		16	37.6	a I		26	53.0	B	
.73	22	7.9		1.1	14.78			23	3.9	1		24	8.4		16				26	53.3	B	
	26	7.8	1	11	14.86	·l		23	4.7	M	Nov		8.2		16	- 58	RI		26	51.9	B	
					7777	**					1 1101	. 1 3	8.5	1	16	37.46	1 1		26	52.8	R	
	530	V	V, B	E	. XXI	11.	193.					22	8.0	1	16	37.63	91		26	51.2	м	1.5
į	Oct. 25	9.2	23	11	27.66	1	101	56	9.9	R		26	8.0		16		3.1		26	51.5	м	. 6
33.40	Nov. 1	9.3		11	27.74	1		56	9.5	R		27	7.9			37.61			26	51. <b>6</b>	м	٠.
37.69 .92	19	9.0		11	27 91	il		56	9.7	М				1				'				
	20	9.1			27.63			56	11.7	М	58	4		$L_{\ell}$	alar	nde 4	5885	•			-	
. 44	27	8.9			27.86			56	11.0	M	1			,			i	1			. 1	
· 5 2.	29	9.0			27.91			56			Sep.	. 19	9.0	23		22.27	1	101		31.5	; I	ıl
.76	30	9.4		11	27.79€			56				27	8.8			22:31	1			31.5		1
.77	Dec. 3	9.2			27.79			56		1	Oct.	. 3	8.7		20	22.10	2					
.61	4	9.2		11	27.64			56		1	1	10	9.0		20				42			22.7
. 613	6	9.5		11	27.55	4		56	10.4	R		13	9-1		20	22.21	o		42	32.5	R	ll.

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Asce	Right ension 377.	No. of Wires.	Dis	n Poli tance 877.	ar	Observer.	Numb and Date	. 1	Magnitude.	A	an R scens 1877 m.	ion	No. of Wires.	Dis	n Postance 877.	lar e	Observer.	
22·33·	Oct. 16 25 31 Nov. 6 10	9·0 9·1 9·0 9·3 9·2	23 20 20 20 20 20	0 22·25 0 22·07 0 22·36		101	42 3 42 3 42 5	32·0 32·1 32·1 29·2 80·5	R R R R		5 25 31	9·2 9·4 9·3	B. 23	24 24 24	29·07 29·03 29·21 29·21		63. 100	50 50 50	1·3 0·8 2·8	R R	29:07
37.64 •55	535 Dec. 6 12		23 2	Pisciun 37·6 <b>5</b> 30 37·56	·	89	25 25	2.2	R R		1 3 6 10 12 17	9·3 9·5 9·5 9·3 9·3		24	29·24 29·20 29·26 28·92 29·08 29·02			50 50 50 50 49 50	4·7 3·7 1·4 0·2 59·9 1·7	R R R R	18 13 20 28 9 0 24 00 107
	<b>536</b> Oct. 1	9·0 9·5	23 2	E. XXI		23. 100		41.2	R R	540	19	9.3	La	24 ılan	29·13 de 46	123		50	1.7	мА	.18
	18 Nov. 21 80	9·2 9·3 9·4	2	22 29·54 22 29·70 22 29·75	 ) }		46 46 46	42·2 42·8 38·5	R M R	Sep. Oct.	18 3 9 13	9·2 9·3 9·3 9·2	23	26 26 26 26	42.85 42.79 42.78 42.71	 3	100	2 2 2 2	47·3 48·1 46·8 49·2	M R R	42.79
29:68 :56 :57	Dec. 13 14 15	9·5 9·8 10·2	:	22 29 69 22 29 55 22 29 56	S		46 46 46	41·3 40·8 40·9	RRR		15 16 18 20	9·2 9·2 9·2 9·2		26 26 26 26	42.89 42.91 42.74 42.94			2 2 2 2	47·6 47·7 47·2 47·4	R R R	1 <del>88</del> 193 175 1 <b>9</b> 7
	537 Sep. 12 17 20	7·9 7·9 7·9	23	ande 4 22 38·99 22 38·89 22 38·79	2   0	99	56 56 56	34·3 35·4 33·9	M M M		22 24	9·3 9·5		26 26	43.06 43.00			2 2	49·1 47·7	R R	.07
	21 22 25	7·7 7·8 7·6		22 39·0 22 38·9 22 38·8	6 2 3		56 56 56	33·8 34·6 35·5	M M M	54 Apl. 54	20		23	27	L. 158 50.48 49:26 Pisciu	3	.p.   3	22	19.8	R	
3-4-03 8-46 8-95	28 Oct. 15 20 22	7.6 8.0 8.0 8.0		22 38-8 22 39-0 22 38-9 22 38-9	8		56 56 56 56	35·0 34·3 33·5 32·3	R R	Sep.	. 19 21		28		37·38	3	1	2 2 2	24·5 24·6	M	
	538 Oct. 2	9.2	23	E. XX	12	1 101	- 7	39.8	1	Nov	6 7. 6			33 33 33	37·4 37·4 37·4			2 2 2	25·1 25·3 25·8 23·4		37.48
\$2·10	6 17 Nov. 22 27	9-2 9-2 9-3		23 52 23 52 23 52 52 52 52 52 52 52 52 52 52 52 52 52	H	-	7 7 7 7		9 R 6 M	4	12 23 24 30			38 38 38	37·3 37·4	1 .	-	2 2 2	24·8 2 <b>3</b> ·9	M W	.36
`b3 `28 '27 '17 '28 '19	Dec. 3 4	9.8		28 52 23 52 23 52 28 52 28 52 28	30 2 <del>0</del>	- }	7 7 7	87 E	5 R		c. 4 6 11 12		1		3 37·3 3 37·4 3 37·3	8		2 2 2	24·3 26·0 23·3	R	. 43
19	11	1	1	28 52	20	- 1	7			1	14		- 1	, 3			-	2			11

Separate Results of Madras Meridian Circle Observations in 1877.

	Number and Date.	Magnitude.	Mean Ri Ascensi 1877. h. m.		D	in Poistand 1877.	ce	Observer.	Num and Da	ì	Magnitude.				No. of Wires.	D	an Peistan 1877	ce.	Observer.
	543		δ Seui	lptoris.					Nov.	17		23	52	59.65	,.,	83	49	1.2	M
				3,	1			,		21	•••		<b>52</b>	59.58			49	2.8	М
	Oct. 18			30.95	118	48	37.1	R		22			52	59.65			49	1.6	M
	Nov. 10		}	3 <del>1:0]</del>	1	48	36.3	R		26			52	59.72			49	1.6	И
	20		1	30.9%		48	37.8	M		27			52	59.73			49	2.2	M
	26		i	30.98		48	38.2	М		30	•••		<b>52</b>	59.65			49	4.2	R
II	28		į.	30.89	1	48	39·2	M	Dec.	3			52	59.67			49	3.0	R
	29			31.07		48	40.3	M		12			52	59.76			49	2.0	R
	Dec. 11	\ ···		31-01	1	48	3 <b>6</b> ·8												
	13		42 3	30.83		48	38.4	R					_						
	544		28 Pis	cium ω					54	5			2	Ceti.	,				
	Nov. 7		23 52 4	59.68	83	49	0.6	ĸ	Sep.	19	4:5	23	57	26.43		108	1	15.4	M
	12		52 8	59.65		49	0.6	R		20	5.0		57	26.29			1	14.9	M

# MEAN POSITIONS OF STARS

OBSERVED WITH THE

# MADRAS MERIDIAN CIRCLE

IN THE YEAR

1877

REDUCED TO JANUARY I OF THAT YEAR

Mean Positions of Stars for 1877, January 1st.

1.	Number.	Star.	Magnitude.	Estimations.	Righ	Mear t Asce	n ension.	Polar	Mean Dista	ance.	Observations.	Fraction of Year.
11					h.	m.	8.		,	,,	1	
}}	1	21 Androm. a (Alpherat)	2·1	l l	o	2	2.00	61	35	19.9	2	0.89
37.12	2	11 Cassiopeiæ 8	2.4	l	o	2	37.28.12	31	31	44.4	3	0.79
0,	3	e Phœnicis	4.0	3	0	3	9.63	136	25	35.4	3	0.75
54.18	4	88 Pegasi $\gamma$ (Algenib)	3.0		О	6	54.15 8	75	30	2.3	4	0.92
	5	8 Ceti	3.6		0	13	8.63	99	30	21.3	1	0.75
	6	κ Phœnicis	4.0	2	o	20	8.96	134	21	44.3	2	0.75
12:01	7	a Phœnicis	2.0	2	0	20	11:06	132	58	28.2	2	0.78
	8	12 Ceti	6.2	<b>\</b>	o	23	45.63	94	38	13.7	5	0.92
53.71	9	β Tucanæ—1st	4.0	3	0	25	53.9771	153	38	11.0	3	0.81
54.42	10	β Tucanæ—2nd	4.0	2	o	25	54.87 42	153	38	36.5	2	0.84
45.38	11	31 Andromedæ δ	3.4		0	32	45.4038	59	48	43.9	2	0.77
24.84	12	16 Ceti β	2.1	1	0	37	24.85 4	108	39	43.4	4	0.92
39.83	13	24 Cassiopeiæ η—1st	4∙0	1	0	41	કુવાઇક 40:30	32	50	14.4	1	0.84
4071	14	24 Cassiopeiæ η—2nd	8.2	1	o	41	40.55 /	32	50	19.0	1	0.83
bar	15	27 Cassiopeiæ γ	2:3		_0	-49_	18:03.	29	56	58.3	2	0.84
15.73	16	2 Ursæ Minoris	4.5		0	52	ડ∵73 1 <del>4:88</del>	4	24	15:3	4	0.79
47.36	17	R. P. L. 14	6.2	1	0	55	43.32	3	30	37.2	4	0.74
33.65	18	71 Piscium e	4.5		0	56	33.645	82	46	21.2	5	0.93
7.0 2	19	& Phœnicis	3.5	1	1	0	35.44	137	22	39.2	1	0.83
12.01	20	v Phœnicis	5.7	5	1	2	10.58.1	132	8	42.7	5	0.91
23.57	21	31 Ceti $\eta$	3.6		1	2	<sup>3.գ</sup> ղ 2 <del>4:0</del> 2	100	50	4.2	3	0.86
25.81	22	L'Tucanse	5.1	5	1	2	26:01	152	25	59.2	5	0.92
50.91	23	43 Andromedæ & (Mirach)	1		1	2	50·89 41	55	1	57·1	3	0.89
37.23	24	33 Cassiopeiæ $\theta$	4.4		1	3	37.12 23	35	30	17·6	5	0.83
16.00	25	Lalande 2186	9.1	5	1	7	15.00 15.98	81	40	41.6	5	0.84
	26	1 Ursæ Minoris a (Polaris)	2.2	1	1	13	41.02	1	20	50.8	9	0.21
46.62	27	37 Cassiopeiæ δ	2.8		1	17	47:18	30	24	18.0	2	0.84
52.44	28	45 Ceti θ			1	17	52·46·4	98	49	6.3	4	0.93
18.08		R Sculptoris, Var. 1	7.0	5	1	21	18:11:08	123	10	54.8	5	0.91
0.47	30	$\gamma$ Phænicis	0.0	2	1	23	1-20	133	56	55.4	2	0.84
54.21	31	99 Piscium $\eta$	3.7			Đ.A	54·19 2	,,,,	-1 Fr			
34.21 7.83	11	S.Dhinin	4.0	2	1	24 26	7.49.83	75	17	20.1	4	0.94
1.79	11	100 D'	1	1		26 35	1:80 -79		42	45.7	2	0.85
20.85	34	F0 C-4:	0.0	•••	1	38		106	8 35	8·0 7·7	4	0.98
23-47	35	EE 0-1: 6	0.0		١.,	45	2096 % 23:53-4	1	აი 56		1	0.84
*3.41		) 55 Cett (		]	1 .	<b>37</b> 0	2000 4	100		35.5	2	0.86

16.—12 R. P. L.

17.—Groombridge 195.

25.—Comparison star for Clytie in 1877.

1   21 Andromedæ α   + 3·0787   + 0·0182   + 0·010   - 20·054   + 0·013   + 0·018   + 0·0	ber.	Star.		In Ri	ght Ascensi	Ou.	In P	olar Distanc	œ.	Authority.*
1 21 Andromedæ α + 3·0787 + 0·0182 + 0·010 - 20·054 + 0·013 + 0·0182	Number.	S Baz.							Proper Motion.	Autho
2 11 Cassiopein β + 3·0971 + 0·0514 + 0·068 - 20·053 + 0·014 + 0·068   3 ε Phœnicis + 3·0528 - 0·0289 + 0·008 - 20·053 + 0·015 + 0·068   4 88 Pegasi γ + 3·0526 + 0·0100 - 0·001 - 20·046 + 0·022 + 0·068   5 8 Ceti ε + 3·0595 - 0·0023 - 0·003 - 20·021 + 0·034 + 0·068   6 ε Phœnicis + 2·9575 - 0·0239 19·977 + 0·047 + 0·047   7 ε Phœnicis + 2·9626 - 0·0227 + 0·022 - 19·977 + 0·047 + 0·055 + 0·068   12 Ceti + 3·0610 + 0·0008 - 0·000 - 19·947 + 0·055 + 0·068   10 β Tucanæ—lst + 2·7681 - 0·0446 + 0·008 - 19·926 + 0·054 + 0·054   10 β Tucanæ—2nd + 2·7678 - 0·0446 + 0·008 - 19·926 + 0·054 + 0·054   11 31 Andromedæ δ + 3·1830 + 0·0221 + 0·010 - 19·849 + 0·075 + 0·054   12 16 Ceti β + 2·9080 - 0·0055 + 0·015 - 19·788 + 0·080 - 0·054   13 24 Cassiopoiæ η—1st.   14 24 Cassiopoiæ η—2nd.   15 27 Cassiopoiæ η—2nd.   16 2 Ursœ Minoris + 6·9054 + 1·3457 + 0·068 - 19·536 + 0·239 + 0·054   17 R. P. L. 14 + 8·3191 + 2·0897 + 0·054 - 10·464 + 0·300 + 0·054   18 71 Piscium ε + 3·1137 + 0·0087 - 0·007 - 19·447 + 0·110 - 0·008   19 β Phœnicis + 2·7480 - 0·0151 19·322 + 0·115   20 ν Phœnicis + 2·3832 - 0·0249 + 0·003 - 19·316 + 0·126 + 0·022   23 43 Andromedæ β + 3·3255 + 0·0286 + 0·014 - 19·305 + 0·139 + 0·022   24 33 Cassiopoiæ δ + 3·3255 + 0·0286 + 0·014 - 19·305 + 0·139 + 0·022   25 Lalaude 2186 + 3·1288 + 0·0099 18·190 + 0·194 + 0·0194 + 0·0194   26 1 Ursæ Minoris α + 2·10·330 - 15·2933 + 0·108 - 19·027 + 0·077 + 0·0194   26 1 Ursæ Minoris α + 2·10·330 - 15·2933 + 0·108 - 19·027 + 0·077 + 0·0194 + 0·0194   26 1 Ursæ Minoris α + 2·10·330 - 15·2933 + 0·108 - 19·027 + 0·077 + 0·014   27 R Seulptœris + 2·6155 - 0·0125 - 0·004 - 18·752 + 0·143 + 0·0019   30 γ Phœnicis + 2·6155 - 0·0125 - 0·004 - 18·752 + 0·143 + 0·0144 + 0·0177 + 0·0144   31 99 Piscium η + 3·1093 + 0·0141 - 0·000 - 18·694 + 0·177 + 0·0144 + 0·0177 + 0·0019   31 99 Piscium η + 3·1093 + 0·0141 - 0·000	1		Ī	8	8	s	"	"	.,	i
3 ε Phonicis + 3·0528 - 0·0289 + 0·008 - 20·053 + 0·015 + 0  4 88 Pegasi γ + 3·0826 + 0·0100 - 0·001 - 20·046 + 0·022 + 0  5 8 Ceti ι + 3·0595 - 0·0023 - 0·008 - 20·021 + 0·034 + 0  6 κ Phonicis + 2·0575 - 0·0239 19·977 + 0·047  7 α Phonicis + 2·9626 - 0·0227 + 0·022 - 19·977 + 0·047 + 0  8 12 Ceti + 3·0610 + 0·0008 - 0·000 - 19·947 + 0·055 + 0  9 β Tucans—Ist + 2·7681 - 0·0446 + 0·008 - 19·926 + 0·054 + 0  10 β Tucans—2nd + 2·7678 - 0·0446 + 0·008 - 19·926 + 0·054 + 0  11 31 Andromedæ δ + 3·1830 + 0·0221 + 0·010 - 19·849 + 0·075 + 0  12 16 Ceti β + 2·9089 - 0·0055 + 0·015 - 19·788 + 0·080 - 0  13 24 Cassiopeiα η—Ist. 4 2·9089 - 0·0055 + 0·015 - 19·788 + 0·080 - 0  15 27 Cassiopeiα γ + 3·5675 + 0·0714 + 0·001 - 19·593 + 0·119 + 0  16 2 Urso Minoris + 6·9054 + 1·3457 + 0·068 - 19·536 + 0·230 + 0  18 71 Piscium ε + 3·1137 + 0·0087 - 0·007 - 19·447 + 0·119 - 0  19 β Phonicis + 2·9800 - 0·0151 19·358 + 0·111 + 0  20 ν Phonicis + 2·9800 - 0·0151 19·322 + 0·115  21 31 Ceti η + 3·0034 + 0·0000 + 0·013 - 19·316 + 0·126 + 0  22 ι Tucansα + 2·3832 - 0·0249 + 0·003 - 19·316 + 0·126 + 0  22 ι Tucansα + 2·3832 - 0·0249 + 0·003 - 19·316 + 0·126 + 0  23 43 Andromedæ β + 3·5858 + 0·0588 + 0·023 - 19·287 + 0·151 + 0  24 1 Urso Minoris α + 2·10330 - 15·2933 + 0·108 - 19·027 + 0·977 + 0·140  26 1 Urso Minoris α + 2·10330 - 15·2933 + 0·108 - 19·027 + 0·977 + 0·140  26 1 Urso Minoris α + 2·10330 - 15·2933 + 0·108 - 18·910 + 0·194 + 0·1	1	21 Andromedæα.		+ 3.0787	+ 0.0182	+ 0.010	<b> 20·054</b>	+ 0.013	+ 0.16	3215
4   88 Pegasi γ   + 3·0826   + 0·0100   - 0·001   - 20·046   + 0·022   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·035   + 0·034   + 0·035   + 0·034   + 0·035   + 0·	2	11 Cassiopeiæ β .	]	+ 3.0971	+ 0.0514	+ 0.066	<b>— 20·053</b>	+ 0.014	+ 0.19	3216
5 8 Ceti ι + 3·0595 - 0·0023 - 0·008 - 20·021 + 0·034 + 0·034 + 0·034 - 0·034 + 0·035 + 0·035	3	e Phœnicis	]	+ 3.0528	- 0.0289	+ 0.008	- 20.053	+ 0.015	+ 0·19	Stone
6 κ Phœnicis + 2·9575 - 0·0239 19·977 + 0·047  7 α Phœnicis + 2·9626 - 0·0227 + 0·022 - 19·977 + 0·047 + 0 8 12 Coti + 3·0610 + 0·0008 - 0·000 - 19·947 + 0·055 + 0 9 β Tucanæ—1st + 2·7681 - 0·0446 + 0·008 - 19·926 + 0·054 + 0 10 β Tucanæ—2nd + 2·7678 - 0·0446 + 0·008 - 19·926 + 0·054 + 0 11 31 Andromedæ δ + 3·1830 + 0·0221 + 0·010 - 19·849 + 0·075 + 0 12 16 Ceti β + 2·9089 - 0·0055 + 0·015 - 19·788 + 0·080 - 0 13 24 Cassiopeiæ η—1st. 14 24 Cassiopeiæ η - 2nd. 15 27 Cassiopeiæ γ + 3·5675 + 0·0714 + 0·001 - 19·593 + 0·119 + 0 15 27 Cassiopeiæ γ + 3·5675 + 0·0714 + 0·001 - 19·593 + 0·119 + 0 16 2 Ursæ Minoris + 6·9054 + 1·3457 + 0·068 - 19·536 + 0·239 + 0 17 R. P. L. 14 + 8·3101 + 2·0897 + 0·054 - 19·464 + 0·300 + 0 18 71 Piscium ε + 3·1137 + 0·0087 - 0·007 - 19·447 + 0·119 - 0 19 β Phœnicis + 2·6926 - 0·0183 - 0·006 - 19·358 + 0·111 + 0 20 ν Phœnicis + 2·7480 - 0·0151 19·322 + 0·115 21 31 Ceti η + 3·034 + 0·0000 + 0·013 - 19·316 + 0·102 - 0 22 ι Tucanæ + 2·3832 - 0·0249 + 0·003 - 19·316 + 0·102 - 0 23 43 Andromedæ β + 3·5858 + 0·0286 + 0·014 - 19·305 + 0·139 + 0 24 3 Cassiopeiæ δ + 3·5858 + 0·0286 + 0·014 - 19·305 + 0·139 + 0 25 Lalande 2186 + 3·1238 + 0·0099 19·308 - 18·910 + 0·104 + 0 26 1 Ursæ Minoris α + 21·0300 - 15·2933 + 0·108 - 19·207 + 0·077 + 0·140 26 1 Ursæ Minoris α + 21·0300 - 15·2933 + 0·108 - 19·077 + 0·140 27 37 Cassiopeiæ δ + 3·8308 + 0·0773 + 0·038 - 18·910 + 0·104 + 0	4	88 Pegasi γ		+ 3.0826	+ 0.0100	- 0.001	<b>- 20·046</b>	+ 0.022	+ 0.01	1
7 α Phænicis + 2·9626 - 0·0227 + 0·022 - 19·977 + 0·047 + 0 8 12 Coti + 3·0610 + 0·0008 - 0·000 - 19·947 + 0·055 + 0 9 β Tucanæ—1st + 2·7681 - 0·0446 + 0·008 - 19·926 + 0·054 + 0 10 β Tucanæ—2nd + 2·7678 - 0·0446 + 0·008 - 19·926 + 0·054 + 0 11 31 Andromedæ δ + 3·1830 + 0·0221 + 0·010 - 19·849 + 0·075 + 0 12 16 Ceti β + 2·9980 - 0·0055 + 0·015 - 19·788 + 0·080 - 0 13 24 Cassiopeiæ η—2nd, 15 27 Cassiopeiæ γ + 3·3675 + 0·0714 + 0·001 - 19·593 + 0·119 + 0 16 2 Ursæ Minoris + 6·9954 + 1·3457 + 0·068 - 19·536 + 0·239 + 0 17 R. P. L. 14 + 8·3191 + 2·0897 + 0·054 - 19·464 + 0·300 + 0 18 71 Piscium ε + 3·1137 + 0·0687 - 0·007 - 19·447 + 0·119 - 0 19 β Phænicis + 2·9926 - 0·0183 - 0·006 - 19·358 + 0·111 + 0 20 ν Phænicis + 2·7480 - 0·0151 19·322 + 0·115 21 31 Ceti η + 3·0334 + 0·0000 + 0·013 - 19·316 + 0·126 + 0 22 ι Tucanæ + 3·3255 + 0·0286 + 0·014 - 19·305 + 0·139 + 0 23 43 Andromedæ β + 3·35858 + 0·0286 + 0·014 - 19·305 + 0·139 + 0 24 33 Cassiopeiæ θ + 3·35858 + 0·0286 + 0·014 - 19·305 + 0·139 + 0 25 Lalande 2186 + 3·1238 + 0·0099 19·197 + 0·140 26 1 Ursæ Minoris α + 21·0330 - 15·2933 + 0·108 - 19·027 + 0·0777 + 0 27 37 Cassiopeiæ δ + 3·8308 + 0·0773 + 0·038 - 18·910 + 0·104 + 0 28 R Sculptoris + 2·7685 - 0·0085 18·806 + 0·148 29 R Sculptoris + 2·7685 - 0·0025 18·806 + 0·148 30 γ Phænicis + 2·6155 - 0·0125 - 0·004 - 18·694 + 0·177 + 0·004 31 99 Piscium η + 3·1093 + 0·0141 - 0·000 - 18·694 + 0·177 + 0·004	5	8 Ceti		<b>4- 3.0595</b>	- 0.0023	- 0.003	- 20.021	+ 0.034	+ 0.03	14
7	6	κ Phœnicis		+ 2.9575	- 0.0239		<b>- 1</b> 9·9 <b>7</b> 7	+ 0.04.7		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	7		- 1	+ 2.9626	- 0.0227	+ 0.022	<b>— 19</b> ·9 <b>7</b> 7	+ 0.047	+ 0.40	Stone
10   β Tucanæ—2nd     + 2.7678   - 0.0446   + 0.008   - 19.926   + 0.054   + 0.011     11   31 Andromedæ δ     + 3.1830   + 0.0221   + 0.010   - 19.849   + 0.075   + 0.012     12   16 Ceti β     + 2.9089   - 0.0055   + 0.015   - 19.788   + 0.080   - 0.013     13   24 Cassiopeiæ η—2nd	8	12 Ceti		+ 3.0610	+ 0.0008	- 0.000	- 19:947	+ 0.055	+ 0.01	38
11 31 Andromedæ $\delta$ + 3·1830 + 0·0221 + 0·010 - 19·849 + 0·075 + 0·12 16 Ceti $\beta$ + 2·9989 - 0·0055 + 0·015 - 19·788 + 0·080 - 0·0 13 24 Cassiopeiæ $\eta$ —2nd. } + 3·4468 + 0·0606 + 0·135 - 19·723 + 0·099 + 0·055 27 Cassiopeiæ $\gamma$ + 3·5675 + 0·0714 + 0·001 - 19·593 + 0·119 + 0·0 16 2 Ursæ Minoris + 6·9954 + 1·3457 + 0·068 - 19·536 + 0·239 + 0·1 17 R. P. L. 14 + 8·3191 + 2·0897 + 0·054 - 19·464 + 0·300 + 0·0 18 71 Piscium $\epsilon$ + 3·1137 + 0·0087 - 0·007 - 19·447 + 0·1 19 - 0·0 18 $\beta$ Phœnicis + 2·0926 - 0·0183 - 0·006 - 19·358 + 0·1 11 + 0·0 19 $\beta$ Phœnicis + 2·7480 - 0·0151 19·322 + 0·1 15 19·322 + 0	9	β Tucanæ—lst .		+ 2.7681	- 0.0446	+ 0.008	- 19.926	+ 0.054	+ 0.03	Stone
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10	β Tucanæ—2nd .		+ 2.7678	- 0.0446	+ 0.008	- 19-926	+ 0.054	+ 0.03	Stone
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11	31 Andromedæ 8		+ 3:1830	+ 0.0221	+ 0.010	<b>-</b> 19·849	+ 0.075	+ 0.08	57
$ \begin{vmatrix} 13 & 24 & Cassiopeim \eta - 1st. \\ 24 & Cassiopeim \eta - 2nd. \\ 15 & 27 & Cassiopeim \eta - 2nd. \\ 16 & 2 & Ursc & Minoris & & + 6 \cdot 9954 & + 1 \cdot 3457 & + 0 \cdot 068 & - 19 \cdot 536 & + 0 \cdot 239 & + 0 \cdot 119 & + 0 \cdot 126 & + 0 \cdot 1$					- 0.0055		<b>– 1</b> 9·788		- 0.03	70
14 24 Cassiopeim $\eta$ —2nd.   + 3°4488   + 0°000   + 0°135   - 19°723   + 0°099   + 0°135   27 Cassiopeim $\gamma$   + 3°5675   + 0°0714   + 0°001   - 19°593   + 0°119			t.	,						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			- 1	} + 3.4468	+ 0.0606	+ 0.135	<b>— 1</b> 9·723	+ 0.099	+ 0.48	79
17 R. P. L. 14 + 8·3191 + 2·0897 + 0·054		_	- 1	+ 3.5675	+ 0.0714	+ 0.001	<b>— 19·593</b>	+ 0.119	+ 0.02	99
17 R. P. L. 14 + 8·3191 + 2·0897 + 0·054 - 19·464 + 0·300 + 0·18   71 Piscium $\epsilon$ + 3·1137 + 0·0087 - 0·007 - 19·447 + 0·119 - 0·19   β Phænicis + 2·6926 - 0·0183 - 0·006 - 19·358 + 0·111 + 0·19   20 v Phænicis + 2·7480 - 0·0151 19·322 + 0·115   21 31 Ceti $\eta$ + 3·0034 + 0·0000 + 0·013 - 19·316 + 0·126 + 0·126   22 v Tucanæ + 2·3832 - 0·0249 + 0·003 - 19·316 + 0·102 - 0·125   23 43 Andromedæ $\beta$ + 3·3255 + 0·0286 + 0·014 - 19·305 + 0·139 + 0·126   24 33 Cassiopeiæ $\theta$ + 3·5858 + 0·0588 + 0·023 - 19·287 + 0·151 + 0·126   25 Lalande 2186 + 3·1288 + 0·0099 19·107 + 0·140   26 1 Ursæ Minoris $\alpha$ + 21·0330 - 15·2933 + 0·108 - 19·027 + 0·0777 + 0·140   27 37 Cassiopeiæ $\delta$ + 3·8308 + 0·0773 + 0·038 - 18·910 + 0·194 + 0·194   28 45 Ceti $\theta$ + 3·0031 + 0·0018 - 0·007 - 18·908 + 0·154 + 0·154   29 R Sculptoris + 2·7685 - 0·0085 18·806 + 0·148   30 $\gamma$ Phænicis + 2·6155 - 0·0125 - 0·004 - 18·752 + 0·143 + 0·177 + 0·140   31 99 Piscium $\eta$ + 3·1993 + 0·0141 - 0·000 - 18·694 + 0·177 + 0·177 + 0·177 + 0·177 + 0·177   31 99 Piscium $\eta$ + 3·1993 + 0·0141 - 0·000 - 18·694 + 0·177 +	16	2 Ursæ Minoris .		+ 6.9954	+ 1:3457	+ 0.068	<b>-</b> 19·536	+ 0.239	+ 0.01	92
18       71 Piscium $\epsilon$ + 3·1137       + 0·0087       - 0·007       - 19·447       + 0·119       - 0·119 </td <td>17</td> <td>~ ~ ~</td> <td>- 1</td> <td>+ 8.3191</td> <td>+ 2.0897</td> <td></td> <td>- 19:464</td> <td>1</td> <td>+ 0.02</td> <td>95</td>	17	~ ~ ~	- 1	+ 8.3191	+ 2.0897		- 19:464	1	+ 0.02	95
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	18		- 1	•	+ 0.0087		- 19.447		- 0 04	113
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 1			•	- 0.0183		<b>— 19·358</b>	1	+ 0.04	Stone
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	20	v Phænicis		+ 2.7480	- 0.0151		- 19:322		,	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	21	31 Ceti n		+ 3:0034	+- 0·0000	+ 0.013	- 19·316	+ 0:126	+ 0.13	141
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 1		- 1						- 0.01	Stone
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	23	10 1 1 1				•			+ 0.08	140
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	24		- 1		•		- 19-287		+ 0.02	142
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 1		- 1				- 19-197			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	26	1 Ursm Minoris a	4	± 21:0320	15.9039	T 0:108	_ 19:027	-L 0:077	+ 0.00	102
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 1		- 1			•			+ 0.04	180
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		- 1	,				·	+ 0.50	184
30 $\gamma$ Phonicis + 2.6155 - 0.0125 - 0.004 - 18.752 + 0.143 + 0.31 99 Piscium $\eta$ + 3.1993 + 0.0141 - 0.000 - 18.694 + 0.177 + 0.000		D Caulukania	1	•						201
31 99 Piscium 7 + 3·1993 + 0·0141 - 0·000 - 18·694 + 0·177 + 0	- 1		1					i - F	+ 0.24	Stone
			1							
$32 \mid \delta$ Phonicis   + 2.4935   - 0.0139   + 0.009   - 18.656   + 0.141   - 0	1		•						+0.00	203
1 00 1 00 70 1	i		- 1			-		1	- 0.14	Stone
									- 0.01	228
			-						- 0.86	233
$35   55 \text{ Ceti } \zeta \dots   + 2.9575   + 0.0023   + 0.000   - 17.971   + 0.199   + 0.000   + 0.000   - 17.971   + 0.199   + 0.000   + 0.00$	35	55 Ceti ζ		+ 2.9575	+ 0.0023	+ 0.000	- 17:971	+ 0.199	+ 0.03	247

<sup>\*</sup>Where only a number is given the authority is Auwers-Bradley.

Mean Positions of Stars for 1877, January 1st.

	Number.	Star-	Magnitude.	Estimations.	Right	Mear Asce	nsion.		Mean Dista		Observations.	Fraction of Year.
1	1				h.	m.	8.	0	,	"		
1	36	45 Cassiopeiæ ∈	3.6		1	<b>4</b> 5	33.80 ?	26	56	12.0	3	0.84
50.79	37	6 Arietis β	2.8		1	47	50·7ኧ <sup>9</sup>	69	47	39.4	3	0.98
0.08	38	χ Eridani	4.0	1	1	51	10.095	142	13	18.6	1	0.01
53.29	39	a Hydri	3.0	2	1	<b>54</b>	53.79 29	152	10	9.5	2	0.84
21.28	40	57 Andromedæ γ—1st	2.2	•••	1	56	21.17.25	48	15	40.₫	3	0.43
22.10	41	57 Andromedæ γ—2nd	5.0	3	1	56	22.01 H	48	15	36.6 37.0	3	0.03
14.44	42	13 Arietis a	2.0		2	. 0	14:43 4	67	7	13.7	3	0.97
13.72	43	4 Tr'anguli 8	3.1		· 2	2	13· <del>60</del> 72	55	35	44.2	5	0.92
29.53	44	μ Fornacis	5.2	5	2	7	29·62 <sup>53</sup>	121	18	5.8	5	0.91
32.88	45	8 Trianguli δ	5.0		2	9	32.818	56	20	24:6	3	0.95
0.22	46	9 Trianguli γ	. <b>5</b> ·5	5.	2	10	0.202	56	43	21.6	5	0.93
4044	47	π¹ Hydri	. 5.7	2	2	11	40.80.44	158	25	1.5	2	0.98
5.58	48	φ Eridani	4.0	3	2	12	6· <del>64</del> .58	142	4	56.7	3	0.03
	49	π² Hydri	. 5.9	1	2	12	55.11	158	18	59.2	1	0.97
2.46	50	S Persei, Var. 4	10.6	2	2	14	2.446	31	58	37.4	2	0.01
27.49	51	••• ••• •••	. 8.9	1	2	14	27·3 <b>6 4</b>	31	43	42.9	1	0.03
54-87	52	κ Fornacis	. 5.4	5	2	16	54.94.87	114	22	33.7	5	0.91
22.51	53	Taylor 798	. 5.5	2	2	17	22.5	133	45	47.0	2	0.93
13.62	54	24 Arietis ξ	. 5.4	<b></b>	2	18	13.5362	79	56	50.6	5	0.96
57.52	55	Radcliffe 706	4.5	2	2	18	57:30:57	1	9	7.7	2	0.95
14.000	56	δ Hydri	4.0	3	2	19	34·2 <del>8</del> 0	159	13	12:9	3	0.02
34.00	57	73 Ceti ξ²	4.4		2	21	37:09	82	5	30.9	1	0.00
54.45	58	R. P. L. 26	8.0	1	2	25	53.17	3	29	24.6	1	0.92
10.80	59	82 Ceti 8	4-1	<b></b>	2	33	10:84 ン	90	12	12.5	1	0.03
48.62	60	Leridani	4.0	2	2	35	48.652	130	22	59.3	2	0.02
	61	86 Ceti γ-2nd	3.6		2	36	55.73	87	17	1.1	4	0.50
16.07	62	80 Cat:	4.3		2			1	22	50.1	3	0.02
44.58	63	41 Amintin	3.8		2			63	14	51·2	3	0.03
	64	2 Tridoni	4.0		2		-	99	23	17:3	2	0.01
35.65	65	4 Enidoni 1st	3.5	2	2			1		55.7	2	0.02
36-64	66	θ Eridani 2nd	5.5	2	2	53	36·7 <b>3</b> ·6	4 130	47	<b>54</b> ·6	2	0.03
0	67	09 Cata - (757)	2.7		_			86			4	
58.04	68	, ,	4.1	- 1	١ .						2	1
31.43	69	P D T. 99	5.8		١ .		31 • 43	5			4	1
	70	El7 Animalia S	4.5	l l				70			5	1

.村

37 6 38 2 39 6 40 5 41 5 42 1 43 4 44 4 45 8 47 7 48 6 49 7 50 \$ 51 52 4	Star.  45 Cassiopeiæ ε 6 Arietis β χ Eridani α Hydri 57 Androm. γ—1st 57 Androm. γ—2nd 13 Arietis α 4 Trianguli β μ Fornacis 8 Trianguli γ π¹ Hydri φ Eridani π² Hydri		Annual Precession.  s + 4·2422 + 3·2954 + 2·2677 + 1·8552 + 3·6521 + 3·6522 + 3·3549 + 3·5377 + 2·6429 + 3·5491	Secular Variation.  s + 0.0993 + 0.0183 - 0.0087 - 0.0027 + 0.0393 + 0.0203 + 0.0203 - 0.0304 - 0.0304	Proper Motion.  s + 0.004 + 0.005 + 0.067 + 0.034 + 0.002 + 0.013 + 0.012	Annual Precession. " - 17·964 - 17·874 - 17·739 - 17·587 - 17·525 - 17·525 - 17·525	Secular Variation.  + 0.283 + 0.226 + 0.162 + 0.138 + 0.266 + 0.266 + 0.252	Proper Motion.  ' + 0.02 + 0.10 - 0.25 - 0.01 + 0.05	239 252 Stone Stone 276
37 6 38 2 39 6 40 5 41 5 42 1 43 4 44 4 45 8 47 7 48 6 49 7 50 \$ 51 52 4	6 Arietis β  χ Eridani  α Hydri  57 Androm. γ—1st  57 Androm. γ—2nd  13 Arietis α  4 Trianguli β  μ Fornacis  8 Trianguli δ  9 Trianguli γ  π¹ Hydri  φ Eridani	   1 	+ 4·2422 + 3·2954 + 2·2677 + 1·8552 + 3·6521 + 3·6522 + 3·3549 + 3·5377 + 2·6429	+ 0.0993 + 0.0183 - 0.0087 - 0.0027 + 0.0393 + 0.0203 + 0.0304	+ 0.004 + 0.005 + 0.067 + 0.034 + 0.002 + 0.002	- 17·964 - 17·874 - 17·739 - 17·587 - 17·525 - 17·525	+ 0.283 + 0.226 + 0.162 + 0.138 + 0.266 + 0.266	+ 0·02 + 0·10 - 0·25 - 0·01 + 0·05	252 Stone Stone 276
37 6 38 2 39 6 40 5 41 5 42 1 43 4 44 4 45 8 47 7 48 6 49 7 50 \$ 51 52 4	6 Arietis β  χ Eridani  α Hydri  57 Androm. γ—1st  57 Androm. γ—2nd  13 Arietis α  4 Trianguli β  μ Fornacis  8 Trianguli δ  9 Trianguli γ  π¹ Hydri  φ Eridani	   1 	+ 3·2954 + 2·2677 + 1·8552 + 3·6521 + 3·6522 + 3·3549 + 3·5377 + 2·6429	+ 0.0183 - 0.0087 - 0.0027 + 0.0393 + 0.0393 + 0.0203 + 0.0304	+ 0.005 + 0.067 + 0.034 + 0.002 + 0.002 + 0.013	- 17·874 - 17·739 - 17·587 - 17·525	+ 0.226 + 0.162 + 0.138 + 0.266 + 0.266	+ 0·10 - 0·25 - 0·01 + 0·05 + 0·05	252 Stone Stone 276
38 2 39 6 40 5 41 5 42 1 43 4 44 4 45 8 47 7 48 6 49 7 50 8	x Eridani  a Hydri  for Androm. γ-1st  for Androm. γ-2nd  a Arietis a  Trianguli β  Fornacis  Trianguli δ  Trianguli γ  a' Hydri  Fidani	  1 	+ 2·2677 + 1·8552 + 3·6521 + 3·6522 + 3·3549 + 3·5377 + 2·6429	- 0.0087 - 0.0027 + 0.0393 + 0.0393 + 0.0203 + 0.0304	+ 0.067 + 0.034 + 0.002 + 0.002 + 0.013	-17.739 $-17.587$ $-17.525$ $-17.525$	+ 0.162 + 0.138 + 0.266 + 0.266	- 0.25 - 0.01 + 0.05 + 0.05	Stone Stone 276
39 40 5 41 5 42 1 43 4 45 8 46 9 47 7 48 6 49 7 50 5 51 52 A	<ul> <li>α Hydri</li> <li>57 Androm. γ-1st</li> <li>57 Androm. γ-2nd</li> <li>13 Arietis α</li> <li>4 Trianguli β</li> <li>μ Fornacis</li> <li>8 Trianguli δ</li> <li>9 Trianguli γ</li> <li>π¹ Hydri</li> <li>φ Eridani</li> </ul>	1	+ 1.8552 + 3.6521 + 3.6522 + 3.3549 + 3.5377 + 2.6429	- 0.0027 + 0.0393 + 0.0393 + 0.0203 + 0.0304	+ 0.034 + 0.002 + 0.002 + 0.013	- 17·587 - 17·525 - 17·525	+ 0·138 + 0·266 + 0·266	- 0·01 + 0·05 + 0·05	Stone 276
40 5 41 5 42 1 43 4 44 4 45 50 5 51 52 4	57 Androm. γ-1st 57 Androm. γ-2nd 13 Arietis α 4 Trianguli β μ Fornacis 8 Trianguli δ 9 Trianguli γ π¹ Hydri φ Eridani	1	+ 3·6521 + 3·6522 + 3·3549 + 3·5377 + 2·6429	+ 0.0393 + 0.0393 + 0.0203 + 0.0304	+ 0.002 + 0.002 + 0.013	-17.525 $-17.525$	+ 0·266 + 0·266	+ 0.05	276
41	57 Androm. γ—2nd 13 Arietis α 4 Trianguli β μ Fornacis 8 Trianguli δ 9 Trianguli γ π¹ Hydri φ Eridani	1  	+ 3.6522 + 3.3549 + 3.5377 + 2.6429	+ 0.0393 + 0.0203 + 0.0304	+ 0.002 + 0.013	- 17·525	+ 0.266	+ 0.05	
42 1 43 4 44 A 45 8 46 9 47 7 48 9 50 8 51 52 A	13 Arietis α 4 Trianguli β μ Fornacis 8 Trianguli δ 9 Trianguli γ π¹ Hydri φ Eridani		+ 3·3549 + 3·5377 + 2·6429	+ 0.0203 + 0.0304	+ 0.013	1		, ,	276
43 4 44 A 45 8 46 9 47 7 48 6 49 7 50 8	4 Trianguli β  μ Fornacis  8 Trianguli δ  9 Trianguli γ  π¹ Hydri  μ Eridani		+ 3·5377 + 2·6429	+ 0.0304	'	- 17:357	+ 0.252	1	_, _, _
44	μ Fornacis 8 Trianguli δ  9 Trianguli γ π¹ Hydri φ Eridani		+ 2.6429	1 .	1. 0.010			+ 0.13	287
45 8 47 7 48 49 7 50 8 51 52 A	8 Trianguli δ  9 Trianguli γ π¹ Hydri φ Eridani			0.0000	7 0 012	<b>— 17·26</b> 9	+ 0.269	+ 0.03	290
46 9 47 48 6 49 7 50 5 51 52 A	9 Trianguli γ π¹ Hydri φ Eridani		+ 3.5491	- 0.0032	- 0.003	- 17:031	+ 0.210	- 0.08	Stone
47 48 49 50 51 52 A	π¹ Hydri φ Eridani			+ 0.0296	+ 0.090	<b>- 1</b> 6·935	+ 0.284	+ 0.22	317
48 49 7 50 8 51 52 A	φ Eridani		+ 3.5.137	+ 0.0292		- 16:913	+ 0.284	,	
49 7 50 8 51 52 A			+ 1.2355	+ 0.0211		<b>—</b> 16·834	+ 0.102		
50 s 51 52 s	π² Hydri		+ 2.1368	- 0.0044	+ 0.002	- 16.815	+ 0.177	+ 0.05	Stone
51 52			+ 1.2295	+ 0.0213		<b>- 16</b> ·775	+ 0.105		
52 A	S Persei		+ 4.2545	+ 0.0782		- 16.722	+ 0.348		
			+ 4.2693	+ 0.0791		- 16.700	+ 0.350		
53 r	κ Fornacis		+ 2.7315	- 0.0007		- 16.581	+ 0.231		
00 .	Taylor 798		+ 2.3498	- 0.0043		- 16.558	+ 0.200		
54 2	24 Arietis ξ		+ 3.2067	+ 0.0126	- 0.001	<b>- 16</b> ·516	+ 0.272	+ 0.01	338
55 ]	Radcliffe 706		+ 4.8538	+ 0.1310		- 16.480	+ 0.410		
56 8	δ Hydri		+ 1.0569	+ 0.0292	- 0.010	- 16:449	+ 0.095	- 0.01	Stone
57 7	73 Ceti ξ <sup>2</sup>		+ 3.1798	+ 0.0117	+ 0.001	<b>- 16·3</b> 46	+ 0.276	+ 0.00	347
58	R. P. L. 26		+16.1022	+ 3.7372		- 16.127	+ 1.403		
59 8	82 Ceti δ		+ 3.0692	+ 0.0081	+ 0.000	- 15.740	+ 0.284	+ 0.01	372
60	. Bridani		+ 2.3573	- 0.0020	+ 0.003	- 15.588	+ 0.223	+ 0.06	Stone
61 8	86 Ceti γ-2nd		+ 3.1124	+ 0.0094	- 0.011	- 15·534	+ 0.294	+ 0.16	383
62 8	89 Ceti π		+ 2.8538	+ 0.0033	- 0.003	- 15.459	+ 0.272	+ 0.01	388
1	41 Arietis		+ 3.5116	+ 0.0229	+ 0.003	- 15.208	+ 0.340	+ 0.12	395
64	3 Eridani η		+ 2.9229	+ 0.0052	+ 0.004	-14.761	+ 0.294	+ 0.22	413
65	θ Eridani—1st		+ 2.2793	- 0.0004		<b>- 1</b> 4·571	+ 0.234		
66	θ Eridani—2nd		+ 2.2793	- 0.0004		- 14·571	+ 0.234		
67 9	92 Ceti a		+ 3.1307	+ 0.0098	- 0.003	- 14:435	+ 0.323	+ 0.07	428
68	11 Eridani $\tau^3$		+ 2.6548	+ 0.0018		<b>- 14</b> ·366	+ 0.276	+ 0.04	434
69	R. P. L. 33	٠	+ 12.9850	+ 1.6053	+ 0.045	- 13.963	+ 1.365	+ 0.12	402
70	57 Arietis δ		+ 3.4091	+ 0.0171	+ 0.010	- 13.893	+ 0.364	- 001	446

Mean Positions of Stars for 1877, January 1st.

175												
	Number.	Star.	Magnitude.	Estimations.	$\mathbf{Righ}_{\mathbf{i}}$	Mea t Asc	n ension.	Polar	Mean Dista	ince.	Observations.	Fraction of Year.
.					h.	m.	ε.	0	,	"		
50.63	71	12 Eridani	3.8		3	6	50.68 3	119	28	24.0	1	0.03
1	72	13 Eridani ζ	4.8		3	9	51.39	99	16	39.1	2	0.01
2:52	73	16 Eridani τ <sup>4</sup>	3.8		3	14	2.54 2	112	12	25.6	4	0.01
7.93	74	10.73.43	3.7	1	3	27	7.95 3	99	52	32.9	4	0.02
21:33	75	10.73 1.7	4.2		3	28	21.36 3	112	2	47.5	4	0.02
21.23	10	19 Eridani τ°	7.2		ິ	20	21 90	112	4	310	- 1	002
10.21	76	39 Persei δ	3.2	<b> </b>	3	34	10.231	42	36	27.4	5	0.18
21.26	77	23 Eridani δ	3.7	<b></b>	3	37	21.31.26	100	10	$52 \cdot 1$	4	0.03
7.27	78	25 Tauri n (Alcyone)	3.0		3	40	10.47	66	16	37.2	6	0.03
19.59	79	26 Eridani π	4.4		3	40	19·6 <del>2</del> 59	102	29	18:8	5	0.93
33-28	80	27 Eridani τ°	4.0		3	41	33.31.28	113	36	52.5	5	0.93
22,78				'''			00 02			0_0		
50.84	81	υ <sup>9</sup> Eridani	4.0	3	3	44	50.9184	126	34	25.3	3	0.02
	82	Lalande 7193	7.4	5	3	47	26.62	73	44	38.0	5	0.92
	83	34 Eridani γ <sup>1</sup>	3.0		3	52	17.41	103	51	35.2	7	0.03
31.65	84	R. P. L. 35	6.7	<b> </b>	3	58	32 <del>-56</del>	4	46	18:3	2	0.03
	85	T Tauri, Var. 4	. 11.0	2	4	4	34.57	68	30	36.0	2	0.06
_			1	1				}				
51.60	86	38 Eridani o'	4.1		4	5	51.620	97	9	34.3	5	0.02
48.06	87	γ Doradûs	. 4.0	4	4	12	48.046	141	47	51.7	4	0.03
50.57	88	a Reticuli	. 3.5	5	4	12	50·64·57	152	46	57·5	5	0.04
14:24	89	41 Eridani v*	. 3.3		4	13	14·27 니	124	6	1.8	4	0.03
24.77	90	43 Eridani ν <sup>5</sup>	. 4.0		4	19	24.787	124	18	13.4	4	0.02
					i		•					
	91	74 Tauri €	1		4	21	26.09	71	5	39.6	10	0.06
	92	,	1.0		4	<b>2</b> 8	51.85	73	44	22.8	4	0.06
	93	48 Eridani $\nu$	. 4.1		4	30	10.47	93	36	21.1	5	0.07
	94	52 Eridani υ <sup>7</sup>	. 3.8		4	30	46.22	120	48	54.4	5	0.07
	95	a Doradûs	3.0	3	4	31	20.19	145	17	59.2	3	0.02
		F0 77 17 1			,		00 ma				_	
	96		3.9		4	32	32.73	104	32	44.4	5	0.09
	97		4.5		4	35	3.70	109	54	32.0	5	0.07
	98	· ·	2.7		4	48	59.05	57	1	50.6	12	0.09
	99	2 Leporis ε	3.3		5	0	15.23	112	32	15.6	7	0.10
	100	67 Eridani β	2.9		5	1	<b>48</b> ·16	95	14	49.4	5	0.07
	101	69 Eridani λ	4.4		5	3	15.59	98	54	48.1	5	0.07
C1	102	70 70		7	5			1	57	50·0	7	0.02
54·4 <b>0</b>	102	100: : 0 (0: 1)	;		1						1	1
53.72	103		0.3	٠٠٠	5	8		98	20	43.7	3	0.09
1 -	104	90 Ostania	9.2	5	5	10		1	11	6.5	5	0.06
	109	20 Orionis τ	3.6		5	11	38·13	96	58	42.8	5	0.07
	1											-

82.—Comparison star for Asia in 1877.

84.—Groombridge 750.

Number.	Star.		In Ri	ght Ascensi	on.	In P	olar Distanc	е.	rity.
Nun	~~~~		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		П	8	s	s	"	"	"	
71			+ 2.5223	+ 0.0012	+ 0.025	- 13·751	+ 0.273	- 0.66	454
72	13 Eridani 🕻		+ 2.9113	+ 0.0056	- 0.002	<b>—</b> 13 <sup>.</sup> 557	+ 0.318	- 0.04	457
73	16 Eridani $\tau^*$		+ 2.6634	+ 0.0026	+ 0.001	- 13 <sup>.</sup> 285	+ 0.297	- 0.04	469
74	18 Eridani e		+ 2.8894	+ 0.0055	- 0.068	- 12·407	+ 0.336	- 0.01	493
75	19 Eridani τ <sup>5</sup>	••	+ 2.6451	+ 0.0030	+ 0.001	12:321	+ 0.309	+ 0.04	495
76	39 Persei δ		+ 4 2419	+ 0.0417	+ 0.001	<b>–</b> 11:917	+ 0.502	+ 0.04	499
77	23 Eridani δ	٠	+ 2.8772	:+0 0055	- 0.008	<b>-</b> 11.692	+ 0.346	- 0.74	515
78	25 Tauri η		+ 3.5538	+ 0.0177	- 0.000	- 11·490	+ 0.430	+ 0.04	521
79	26 Eridani $\pi \dots$		+ 2.8294	+ 0.0049	+ 0.000	- 11 <sup>.</sup> 475	+ 0.343	- 0.07	526
80	27 Eridani τ <sup>6</sup>		+ 2.5912	+ 0.0030	- 0.013	<b>- 11</b> ·391	+ 0.316	+ 0.53	530
81	v² Eridani		+ 2.2177	+. 0.0026	- 0.008	- 11·152	+ 0.277	+ 0.07	Stone
82	Lalando 7193		+ 3.3987	+ 0.0142	•••	- 10 <sup>.</sup> 964	+ 0.467	•••	
83	34 Eridani γ¹	• • •	+ 2.7923	+ 0.0047	+ 0.003	- 10.006	+ 0.351	+ 0.11	546
84	R. P. L. 35	• • • •	+ 16.8000	+ 1.8099	+ 0.057	<b></b> 10·137	+ 2.125	- 0.02	Gr.
85	T. Tauri, Var. 4	• • •	+ 3.5335	+ 0.0146	•••	- 9.678	+ 0.455	•••	
86	38 Eridani oʻ		+ 2.9247	+ 0.0058	- 0.001	<b>–</b> 9:578	+ 0.379	- 0.09	568
87	γ Doradûs		+ 1.5558	+ 0.0076	+ 0.004	- 9.042	+ 0.206	- 0.10	Stone
88	α Reticuli		+ 0.7518	+ 0.0216	+ 0.002	- 9·039	+ 0.102	- 0.07	Stone
89	41 Eridani v*	•••	+ 2.2634	+ 0.0031	- 0.00i	<b>-</b> 9.008	+ 0.290	- 0.01	590
90	43 Eridani v <sup>5</sup>	•••	+ 2·2466	+ 0.0033	+ 0.002	- 8:522	+ 0.300	- 0.03	Stone
91	74 Tauri €		+ 3:4894	+ 0.0120	+ 0.007	- 8:362	+ 0.466	+ 0.03	609
92	87 Tauri a		+ 3.4317	+ 0.0102	+ 0.004	- 7·767	+ 0.464	+ 0.18	630
93	48 Eridani v	•••	+ 2.9944	+ 0.0058	- 0.002	<b>– 7</b> ·659	+ 0.406	- 0.01	637
94	52 Eridani ν²		+ 2.3344	+ 0.0033	- 0.005	<b>- 7</b> ·613	+ 0.318	- 0.01	645
95	α Doradûs	•••	+ 1.2842	+ 0.0099	+ 0.011	<b>- 7</b> :566	+ 0.176	+ 0.04	Stone
96	53 Eridani		+ 2.7503	+ 0.0042	- 0.008	<b>- 7:4</b> 69	+ 0.375	+ 0.16	647
97	54 Eridani		+ 2.6209	+ 0.0037	0.000	<b>- 7</b> ·265	+ 0.359	+ 0.09	653
98	3 Aurigæ 1		+ 3.8981	+ 0.0144	+ 0.001	- 6115	+ 0.544	+0.00	677
99	2 Leporis e		+ 2·5362	+ 0.0033	+ 0.000	- 5169	+ 0.359	+ 0.07	713
100	67 Eridani 8	•••	+ 2.9534	+ 0.0045	- 0.007	- 5.038	+ 0.419	+ 0.07	715
101	69 Eridani λ		+ 2.8689	+ 0.0041	-· 0.000	<b>–</b> 4·914	+ 0.408	- 0.00	720
102	μ Doradus, Var. 1	•••	+ 0.6311	+ 0.0136		- 4·690	+- 0.091		
103	19 Orionis β		+ 2.8810	+ 0.0040	- 0.001	- 4:458	+ 0.412	- 0.01	736
104	*** .,,		+ 0.5961	+ 0.0131		- 4·264	+ 0.087	•••	
105	20 Orionis τ		+ 2.9122	+ 0.0040	- 0.002	- 4·201	+ 0.417	+ 0.00	742
!			1. Propos m	<u> </u>			<u> </u>		

84.--Proper motions from Greenwich Catalogue of 1872.

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.		Magnitude.	Estimations.		Mean t Asc	ension.	Polar	Mean Dista	ince.	Observations.	Fraction of Year.
						h.	m.	s.	۰	,	"		
	1	112 Tauri β		1		5	18	31.08	61	29	55·0	6	0.07
6.08	107	24 Orionis γ	•••	1		5	18	32.14	83	45	45.0	2	0.01
6.08	108	R. P. L. 40				5	22	45:95	4	52	<b>17</b> ·9	8	0.50
58.41	109	9 Leporis <b>\beta</b>		1		5	22	58-42	110	51	32.6	3	0.01
İ	110	34 Orionis δ, Va	ır.1	2.4		5	25	43.39	90	23	29 3	3	0.10
50.46	111	e Columbæ		4.0	4	5	26	50.52.46	125	33	42.7	4	0.02
	112	11 Leporis α	•••	0.5		5	27	18.37	107	54	42.8	2	0.07
l	113	44 Orionis ı—1s	.1	3.0		5	29	24.82	95	59	31.8	4	0.03
8	114	46 Orionis e		1.8		5	29	58.31	91	16	56.6	3	0.08
	115	& Doradûs		4.0	5	5	32	33.29	152	34	158	5	0.06
0. 03	116	48 Orionis σ—1	_1	0.5	1		•	04050	00	40	00.0		0.04
34.23	117	50 Orionis 6—1		3.7		5 5	32	34.25 3	92	40	22.9	4 5	0.04
	118	13 Leporis γ		0.0	1	) 5	34 39	33·01 19·96	92 112	0 29	34.2	5	0.04
	119	53 Orionis κ		9.0	""	5	39 41	19 <sup>-96</sup> 55·27	99	42	23·9 53·4	4	0.03
37.27	120	& Columba		9.0	"	5	46	37:31·27	1	48	57·2	3	0.02
3/2/		& COMMINS	•••	2.9		"	30	3/51 ~ ]	125	40	0/ Z	"	0 02
	121	58 Orionis a (B	etelgeux).	Var.		5	48	30.78	82	37	2.4	4	0.08
	122	*34 Aurigæ 👂	•••	2.1		5	<b>5</b> 0	30.11	45	4	3.3	4	0.04
	123	16 Leporis η	•••	3.7		5	50	48.04	104	11	30.3	5	0.06
10.25	124	γ Columbæ	•••	4·1	5	5	53	10.275	125	17	51.5	5	0.04
48.57	125	R. P. L. 43	•••	6.6		5	57	48.27	3	14	<b>14</b> ·8	4	0.22
	126	67 Orionis v	•••	44		6	0	32.94	75	13	7:0	6	0.08
	127	13 Geminorum		3.2		6	15	31.17	67	25	31.8	2	0.10
35.42	128	1 Canis Majori		3.0		6	15	35.43 2		0	36.9	5	0.07
	129	2 Canis Majori	- 0	2.0		6	17	16.77	107	53	45.8	5	0.07
	130	3 Canis Majoris		4:1	5	6	17	36.87	123	22	31.2	5	0.06
		01.7											
	131	24 Geminorum	•	2.0	1	6			73	29	52.0	9	0.10
0 0 00	132	ν Argûs	•••	3.1	5	6		••••	133	5	22:0	5	0.06
22.82	133	Lalande 12863 51 Cephei (Hen		7.0	1	6	-			32	20.5	3	0.21
	134	13 Canis Major		5.0	"	1 4			2	46	3.7	5	0.40
14.64	199	TO OWILLS WINTO	1.18 K	3.9		'	, <del>4</del> 0	14·6 <b>8</b> 4	122	22	4.6	5	0.07
	136	τ Argûs	•••	4.0	5	. 6	46	53.01	140	28	8.1	5	0.02
	137	16 Canis Major		4.1	5	. 6	49	1.73	114	1	<b>53</b> ·8	5	0.08
	138			1.5		. 6	5 58	47.48	118	48	21.4	4	0.12
	139	}	ris	3.5	5	1	5 56	49.11	117	45	36.7	5	0.08
	140	Taylor 2813	• •••	8.4	5	1	5 57	20.34	94	5	16.1	5	0.02

Observed with the Madras Meridian Circle in that Year.

ber.	Q.	In Ri	ght Ascensi	on.	In l	Polar Distanc	oe.	ority.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
10		8	s	s	"	"	"	
106	112 Tauri β	+ 3.7864	+ 0.0082	+ 0.001	<b>— 3·61</b> 0	+ 0.545	+ 0.18	756
107	24 Orionis γ	+ 3.2159	+ 0.0048	- 0.002	<b>- 3.6</b> 09	+ 0.463	+ 0.02	761
108	R. P. L. 40	+ 18.5511	+ 0.6252		- 3.243	+ 2.671		
109	9 Leporis 8	+ 2.5694	+ 0.0030	- 0.002	- 3.226	+ 0.371	+ 0.08	781
110	34 Orionis δ, Var. 1	+ 3.0632	+ 0.0038	- 0.001	<b>–</b> 2-988	+ 0.443	+ 0.01	787
1 <b>1</b> 1	€ Columbæ	+ 2.1265	+ 0.0030	+ 0.002	- 2-892	+ 0.308	+ 0.07	Stone
112	11 Leporis α	+ 2.6445	+ 0.0029	- 0.001	<b>—</b> 2·851	+ 0.383	<b></b> 0·01	7 <b>9</b> 6
113	44 Orionis ι—1st	+ 2.9332	+ 0.0034	- 0.001	<b>—</b> 2-669	+ 0.425	<b>—</b> 0·01	806
114	46 Orionis €	+ 3.0426	+ 0.0035	- 0.002	<b>—</b> 2-620	+ 0.441	<b></b> 0·01	809
115	β Doradús	+ 0.5145	+ 0.0091	- 0.003	- 2.396	+ 0.075	<b></b> 0.05	Stone
116	48 Orionis σ—1st	+ 3.0102	+ 0.0033	- 0.002	- 2.400	+ 0:352	O·01	814
117	50 Orionis (	+ 3.0256	+ 0.0033	- 0.001	- 2-222	+ 0.439	- 0·01	819
118	13 Leporis γ	+ 2.5210	+ 0.0026	- 0.023	1.806	+ 0.367	+ 0.37	837
119	53 Orionis κ	+ 2.8440	+ 0.0027	- 0.002	<b>— 1.580</b>	+ 0.414	<b></b> 0.00	844
120	β Columbæ	+ 2.1092	+ 0.0026	+ 0.002	- 1.170	+ 0.308	- O·39	Ston
121	58 Orionis α	+ 3.2453	+ 0.0027	+ 0.001	- 1.002	+ 0.473	- O·02	860
122	34 Aurigæ β	+ 4:4048	+ 0.0043	- 0.007	- 0.832	+ 0.642	+ 0.01	859
123	16 Leporis η	+ 2.7345	+ 0.0023	- 0.004	- 0.802	+ 0.308	- 0.15	860
124	γ Columbæ	+ 2.1261	+ 0.0024	- 0.002	- 0.598	+ 0.310	+ 0.01	Ston
125	R. P. L. 43	+ 26.7064	+ 0.0749		- 0.192	+ 3.895		٠٠٠
126	67 Orionis v	+ 3.4250	+ 0.0017	- 0.000	+ 0.048	+ 0.500	+ 0.01	887
127	13 Geminorum μ	+ 3.6268	- 0.0003	+ 0.004	+ 1.357	+ 0.527	+ 0.10	920
128	1 Canis Majoris ζ	+ 2.3018	+ 0.0010	+ 0.000	+ 1.363	+ 0.334	- 0.01	933
129	2 Canis Majoris &	+ 2.6417	+ 0.0016	- 0.002	+ 1.211	+ 0.383	- 0.00	930
130	3 Canis Majoris	+ 2.1941	+ 0.0020	- 0.005	+ 1.542	+ 0.318	+ 0.08	939
131	24 Geminorum γ	+ 3.4648	- 0.0015	+ 0.002	+ 2.670	+ 0.500	+ 0.04	969
132	ν Argûs	+ 1.8353	+ 0.0014	- 0.004	+ 2.964	+ 0.264	+ 0.01	Ston
133	Lalando 12863	+ 3.2226	- 0·0007		+ 3.083	+ 0.463		
134	51 Cephei	+30.2553	- 2.1200	- 0.040	+ 3.678	+ 4:336	+ 0.02	Gr.
135	13 Canis Majoris κ	+ 2.2413	+ 0.0012	- 0.003	+ 3.933	+ 0.319	- 0.02	100
136		+ 1.4860	- 0.0003		+ 4:074	+ 0.210		
137			+ 0.0013	- 0.003	+ 4.257	+ 0.323	- 0.01	1014
138	21 Canis Majoris e	+ 2.3572	+ 0.0013	- 0.001	+ 4.664	+ 0.332	- 0.03	1028
139	22 Canis Majoris	+ 2.3900	+ 0.0013	- O·002	+ 4.921	+ 0.336	+ 0.01	1027
140	Taylor 2813	+ 2.9796	- 0.0007	•	+ 4.965	+ 0.419		

134.—Proper motions from Greenwich Catalogue of 1880.

Mean Positions of Stars for 1877, January 1st.

lī-				<del></del>							<u>* 1</u>	
	Number	Star.	Magnitude,	Estimations	Righ	Mean t Asc	ension.	l Polar	Mean Dista	ance.	Observations	Fraction of Year.
11										i	<del>-</del>	
	141	94 Comin Majoria es	3.0		h. 6	m. 57	8. 53·23	。 113	, 39	" 16·8	5	0.09
	142	24 Canis Majoris o <sup>2</sup>	1.8								5	0.07
ll ll	143	25 Canis Majoris δ	3.1	5	7 7	3	23·32 47·79	116 126	11	57.8	5	0.07
- 1	144	$\pi$ Argûs 31 Canis Majoris $\eta$	2.4	1 1	7	12	13.65		52 3	39.3	5	0.12
- 11	145		3.1		7	19 20	28.70	119	-	51.1	5	0.07
	140	3 Canis Minoris 8	9 I		7	20	28.70	81	27	48.1	9	007
1	146	σ Argûs	4.1	5	7	25	19.65	133	3	12.8	5	0.08
1	147	66 Gemin. a2 (Castor)	2.0		7	26	45.01	<b>57</b>	50	36.5	2	0.14
į į	148	10 Can. Min. a (Procyon)	0.5		7	32	51.73	84	27	39.3	11	0.15
	149	S. Geminorum, Var. 3	10.5	4	7	35	20.82	66	14	2.7	4	0.07
47.23	150	78 Geminor. \$ (Pollux)	1.1		7	37	47.243	61	40	43.3	7	0.16
	151	7 Argûs §	3.4		7	<b>4</b> 4	7.23	114	33	7.7	5	0.08
	152	R. P. L. 49	6.7		7	47	14.01	5	35	36.2	3	0.12
-	153	Taylor 3318	4.2	5	7	<b>4</b> 9	41.13	137	47	0.1	5	0.07
	154	χ Argûs	4.1	5	7	53	38.96	142	39	10.1	5	0.09
57.7¢	155	6 Cancri	5.0		7	55	57· <del>68</del> ·7 <b>4</b>	61	51	44.6	3	0.21
	156	ζ Argûs	2.5	5	7	59	15.68	129	39	24.5	5	0.09
ł	157	ξ Argus	2.9	1	8	2	18.39	113	57	3.2	7	0.17
	158	γ Argûs—2nd	2.1	5	8	. 5	16 53 44·42	136	58	30.3	5	0.08
	159	€ Argûs	2.3	5	8	19	59.28	149	6	52·4	5	0.09
	160	33 Cancri 7	5.5		8	25	35·65	69	8	32.3	5	0.16
	100	50 Cancer 1,			8	20	00 00	09	0	Đ4°Đ	"	010
28-11	161		9.9	3	8	36	28.12	81	30	27.8	3	0.23
	162	o Argûs	4.2	5	8	36	46.10	142	29	9.8	5	0.12
24.65	163		9.5	1	8	37	24.63 5	81	36	52.3	1	0.21
	164	11 Hydræ €	3.6		8	40	15.66	83	7	52.7	4	0.21
18.63	165	δ Argûs	3.1	5	8	41	18.62 3	144	15	29.7	5	0.14
	7.00	D D T 40		1			2.09 2 <b>1:3</b> 7				1	
22.08	166	R. P. L. 60	1		8			5	19	48.5	5	0.26
-1 -7	167	W. B. E. VIII. 1302	1.0	1	8	51	27:03 4	98	56	43.9	1	0.28
2	168	b¹ Carinæ	1	5	8		57.75	148	45	19.5	5	0.12
23.00	169	b <sup>2</sup> Carinæ		5	8			ł	36	49.4	5	0.14
	170	λ Argûs	3.4	5	9	. 3	28.41	132	56	13.3	5	0.10
	171	Taylor 4028	. 8.2	1	9	6	34.04	132	46	6.2	1	0.13
89.02	172	β Argûs	1	4	9			3	12	41.8	5	0.13
	173	83 Cancri	1		9			71	46	28.6	11	0.18
	174	κ Argûs	1	5	9			144	29		5	0.14
	175	30 Hydræ α, Var. 2	1		9			98	7		10	0.25
			]		<u> </u>							

<sup>152.—</sup>Groombridge 1359. 161—163.—Comparison stars for Melete in 1868.

<sup>166.—</sup>Carrington 1286. 167.—Observed for map of T Hydræ.

Observed with the Madras Meridian Circle in that Year.

ber.	0.	In R	ight Ascensi	on.	In P	olar Distanc	e.	rity.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority
		8	8	8	"	"	"	
141	24 Canis Majoris o'	+ 2.5052	+ 0.0011	- 0.002	+ 5.012	+ 0.352	- 0.02	1029
142	25 Canis Majoris δ	+ 2.4394	+ 0.0012	- 0.002	+ 5.476	+ 0.340	- 0.01	1042
143	π Argûs	+ 2.1194	+ 0.0011	- 0.004	+ 6.263	+ 0.291	+ 0.02	Stone
144	31 Canis Majoris η	+ 2.3732	+ 0.0011	- 0.002	+ 6.796	+ 0.323	+ 0.01	1081
145	3 Canis Minoris &	+ 3.2607	- 0.0041	- 0.004	+ 6.898	+ 0.444	+ 0.03	1079
146	σ Argûs	+ 1.9087	+ 0.0002	+ 0.002	+ 7.295	+ 0.256	- 0.09	Stone
147	66 Geminorum a2	+ 3.8532	- 0.0133	- 0.012	+ 7.411	+ 0.519	+ 0.08	1087
148	10 Canis Minoris a	+ 3.1914	- 0.0041	- 0.047	+ 7.905	+ 0.425	+1.03	1106
149	S Geminorum	+ 3.6108	- 0.0102		+ 8.105	+ 0.480		
150	78 Geminorum 👂	+ 3.7281	- 0.0128	- 0.048	+ 8.300	+ 0.491	+ 0.02	1112
(51	7 Argûs ξ	+ 2.5234	+ 0.0008	- 0.001	+ 8.800	+ 0.327	- 0.02	1132
152	R. P. L. 49	+ 15.2565	- 1.2372		+ 9.044	+ 1.982		
153	Taylor 3318	+ 1.7642	- 0.0006	- 0.002	+ 9.236	+ 0.224	- 0.07	Stone
154	χ Argûs	+ 1.5312	- 0.0029	+ 0.001	+ 9.542	+ 0.192	+0.02	Stone
155	6 Cancri	+ 3.6976	- 0.0148	- 0.003	+ 9.719	+ 0.468	+ 0.04	1149
156	ζArgûs	+ 2.1106	+ 0.0013	- 0.004	+ 9.971	+ 0.263	- 0.03	Stone
157	15 Argûs ι	+ 2.5609	+ 0.0000	- 0.008	+ 10.201	+ 0.318	- 0.06	1170
158	γ Argûs—2nd	+ 1.8500	+ 0.0001	+ 0.002	+ 10.459	+ 0.226	+ 0.04	Stone
159	€ Argûs	+ 1.2413	- 0.0089	- 0.002	+ 11.502	+ 0.143	- 0.03	Stone
160	<b>33</b> Cancri η	+ 3.4822	- 0.0129	- 0.004	+ 11.900	+ 0.404	+ 0.05	1207
161		+ 3.2271	- 0.0077		+ 12.652	+ 0.360		
162	1	+ 1.7225	- 0.0000	+ 0.001	+12.673	+ 0.190	+0.02	Stone
163	1	+ 3.2246	- 0.0076		+ 12.716	+ 0.359		
164	1	+ 3.1955	- 0.0071	- 0·014	+ 12.908	+ 0.351	+ 0.02	1243
165	δ Argûs	+ 1.6560	- 0-0018	0-000	+ 12.978	+ 0.178	+ 0.10	Stone
166		, 20001,	- 1.7118		+ 13.507	+ 1.467		
167		+ 2.9180	- 0.0016		+13.642	+ 0.300		
168		+ 1-4736	- 0.0023	- 0.003	+ 13·802	+ 0.150	- 0.04	Stone
169	bo Carina	+ 1.4984	- 0.0048	- 0.020	+ 13.955	-+ 0·151	- 0.24	Stone
170	λ Argûs	+ 2.2060	+ 0.0045	- 0.006	+ 14:394	+ 0.218	0.00	Stone
171	1	+ 2.2233	+ 0.0048		+ 14:581	+ 0.217		
172	(	+ 0.7140	- 0.0348	- 0.035	+ 14:894	+ 0.064	- 0.08	Stone
173		+ 3.3666	- 0.0134	7 <del>+</del> 0-009	+ 14.909	+ 0.323	+ 0.14	1309
174	κ Argûs	. + 1.8575	+ 0.0027	/ <del>-</del> 0.007	+ 15.266	+ 0.169	- 0.01	Stone
175	30 Hydræ a	. + 2.9505	- 0.0013	- 0.002	+ 15.449	+ 0.268	- 0.05	1330

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Mean Positions of Stars for 1877, January 1st.

	Number.	Star.		Magnitude.	Estimations.	Right	Mea t Asc	n eension.	Pola	Mean r Dist		Observations.	Fraction of Year.
1			ł	ļ	- 1	h.	m.	s.	0	1	"		
	176	ψ Argûs		4.1	5	9	25	51.39	129	55	44.7	5	0.14
	177	W. B. E. IX. 708		8.8	5	9	33	15.77	86	14	56.0	5	0.28
1	178			10.0	5	9	37	3.72	<b>7</b> 9	51	50.0	5	0.29
	179			10.0	5	9	37	47.89	79	46	17.0	5	0.29
	180	17 Leonis ∈		3.1		9	38	52.02	65	39	38.4	7	0.25
1	181			0.0	ايا	0	47	11.50	79	21	19-9	_	0.00 4
1		A A	***	8.2	5	9	41	11.50				5	0.30
45.91	182 183	v Argûs		3·3 4·1	5	9	44 45	1·75 45·901	154 63	30 24	7·5	5	0.14
1	184	24 Leonis μ R. P. L. 70	***	4r1 5·0		9	45 48	45.90 · 37. <del>84</del> ·65	1	24 29	53·0 26·7	5	0·16 0·51
37.65	185			5∙0 4•4	5	9	48 52	32.7 <b>8</b> 9	143	29 58	26.7 58.2	4	1
-217	109	φ Argûs	•••	4.4	٥	9	ΰZ	32 / <b>P</b> 7	149	96	90.Z	5	0.15
	186	29 Leonis π		5⁺0		9	53	42.76	81	21	59.2	10	0.26
	187	32 Leonis a (Regulus)		1.4		10	1	49.17	77	25	56.3	7	0.28
34.58	188	q Velorum		4:5	5	10	9	34 <del>60</del> ડે8	131	30	47.8	5	0.15
48-82	189	ω Argûs		4.1	5	10	. 10	48.85 2	159	25	41.3	5	0.18
29.40	190	R. P. L. 72		6.0		10	11	29·7 <del>0</del> -40	5	7	31.8	9	0.59
11.31	191	41 Leonis $\gamma^1$	•••	2.5		10	13	11.32	69	32	11.8	6	0.58
	192	34 Ursæ Majoris μ	•••	3.1		10	14	59.60	47	52	55.6	5	0.50
	193	42 Hydræ μ	•••	41		10	20	8.46	106	12	32.1	5	0.16
	194	47 Leonis ρ	•••	40		10	26	20.02	80	3	40.2	7	0.28
	195	0 Argûs	•••	3.0	5	10	38	34.17	153	45	1.5	5	0.24
28.48	196	μ Argûs		3.1	4	10	41	28.978	138	46	14:1	5	0.19
	197	53 Leonis l	•••	F.0		10	42	47:45	78	48	15.8	7	0.29
33.45	198	ν Hydræ		ا م		10	43	33.465	105	32	58.1	5	0.23
	199			70.5	5	10	43	50.76	81	48	21.4	5	1
6.71	200	Taylor 4915		8.5	1	10	47	6· <del>9</del> 7·7!	135	33	51.1	1	
									1				
<b>-4-17</b>	201	48 Ursæ Majoris β	••	1		10	54	24.23	32	57	31.2	5	
	202	63 Leonis x		1		10	58	40.29	81	<b>5</b> 9	58.8	9	-1
36·S0	203	11 Crateris &		1		11	5	36·5 <b>‡ 0</b>	112	9	15.7	5	
	204	68 Leonis δ				11	7		68	48	9.3	7	1
	205	70 Leonis θ	••	3.2		11	7	46.94	73	<b>5</b> 3	<b>54</b> ·9	5	0.23
11:51	206	12 Crateris δ	•••	3.9		111	13	11:49 \$1	104	e	46.4	_	0.90
23.43	207	π Centauri		1	5	11			143	6		5	1
~~ 12)	208	15 Crateris γ			ŀ	11			107	48			1
\$7.30	209	10.77				11	26		1	0		5	1
J. 30	210	107.0	••	1		1		-	121	10		5	1
		21 Crateris 6	•	1 4		J 11	ა0	26.20	99	7	17.6	5	0.23

<sup>177.—</sup>Comparison star for Sappho in 1877. 178—179—181.—Comparison stars for Camilla in 1877.

<sup>184.—</sup>Carrington 1451. 190.—Groombridge 1620.

177 W. 178 179 180 171 181 182 υ A 183 241 184 R. 185 φ A 186 291 187 321 188 q V 189 ω A 190 R. 191 41 192 341 193 42 194 47 195 θ A 196 μ A 197 53 198 υ II 199 200 Tag	Star.  Legûs  B. E. IX. 708   Leonis c   Leonis p  P. L. 70  Leonis a  Colorum  Argûs  P. I. 72  Leonis y  Ursa Majoris p		Annual Precession.  s + 2·3752 + 3·1246 + 3·2118 + 3·2125 + 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377 + 9·8682	Secular Variation.  5 + 0.0065 - 0.0060 - 0.0091 - 0.0092 - 0.0180 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072 - 1.6141	Proper Motion.  4 - 0.027 0.004 0.000 - 0.019 0.004 - 0.018 - 0.017 - 0.026 - 0.096	Annual Precession.  " + 15·687 + 16·083 + 16·279 + 16·316 + 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·447 + 17·771 + 17·821	Secular Variation.	Proper Motion.  "	Stone 1368 Stone 1384 Stone 1398 1406 Stone Stone Stone
177 W. 178 179 180 171 181 182 υ A 183 241 184 R. 185 φ A 186 291 187 321 188 q V 189 ω A 190 R. 191 41 192 341 193 42 194 47 195 θ A 196 μ A 197 53 198 υ II 199 200 Tag	B. E. IX. 708 Leonis \( \text{Leonis} \) Leonis \( \mu \) Leonis \( \pi \) Leonis \( \pi \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \)		+ 2·3752 + 3·1246 + 3·2118 + 3·2125 + 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	+ 0.0065 - 0.0060 - 0.0091 - 0.0092 - 0.0180 - 0.0093 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	- 0·027 0·004 0·000 - 0·019 0·007 - 0·018 - 0·017 - 0·026	+ 15·687 + 16·083 + 16·279 + 16·316 + 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0·209 + 0·265 + 0·267 + 0·265 + 0·282 + 0·260 + 0·116 + 0·271 + 0·833 + 0·155 + 0·225 + 0·332 + 0·088	- 0.07 + 0.01 + 0.01 + 0.01 + 0.01 - 0.02 - 0.05	 1368  Stone 1384  Stone 1398 1406 Stone
177 W. 178 179 180 171 181 182 υ A 183 241 184 R. 185 φ A 186 291 187 321 188 q V 189 ω A 190 R. 191 41 192 341 193 42 194 47 195 θ A 196 μ A 197 53 198 υ II 199 200 Tag	B. E. IX. 708 Leonis \( \text{Leonis} \) Leonis \( \mu \) Leonis \( \pi \) Leonis \( \pi \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \)		+ 3·1246 + 3·2118 + 3·2125 + 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0060 - 0.0091 - 0.0092 - 0.0180 - 0.0093 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072		+ 16·083 + 16·279 + 16·316 + 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.265 + 0.267 + 0.265 + 0.282 + 0.260 + 0.116 + 0.271 + 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	 + 0·01  + 0·01 + 0·01 + 0·01 - 0·02 - 0·05	 1368  Stone 1384  Stone 1398 1406 Stone
178 179 180 171 181 182 υ A 183 241 184 R. I 185 φ A 186 291 187 321 188 q V 189 ω A 190 R. I 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 198 υ II 199 200 Tag	Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \) Leonis \( \alpha \)		+ 3·2118 + 3·2125 + 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0091 - 0.0092 - 0.0180 - 0.0093 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072		+ 16·279 + 16·316 + 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.267 + 0.265 + 0.282 + 0.260 + 0.116 + 0.271 + 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	 + 0·01  + 0·01 + 0·01 + 0·01 - 0·02 - 0·05	1368 Stone 1384 Stone 1398 1406 Stone
179 180 171 181 182 υ A 183 241 184 R. 1 185 φ A 186 291 187 321 188 q V 189 ω A 190 R. 1 191 41 1 192 341 193 42 1 194 47 1 195 θ A 196 μ A 197 53 198 υ H 199 200 Tay	Leonis $\mu$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$ Leonis $\pi$		+ 3·2125 + 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0092 - 0.0180 - 0.0093 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	0.004 0.000 - 0.019 0.007 - 0.004 - 0.018 - 0.017 - 0.026	+ 16·316 + 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.265 + 0.282 + 0.260 + 0.116 + 0.271 + 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	 + 0·01  + 0·01 + 0·01 + 0·01 - 0·02 - 0·05	1368 Stone 1384 Stone 1398 1406 Stone
180 17 1 181 182 ν A 183 24 1 184 R. 1 185 φ A 186 29 1 187 32 1 188 q V 189 ω A 190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 1 198 ν H 199 200 Τα	Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a Leonis a		+ 3·4215 + 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0180 - 0.0093 - 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	- 0.004 0.000 - 0.019 0.007 - 0.004 - 0.018 - 0.017 - 0.026	+ 16·371 + 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.282 + 0.260 + 0.116 + 0.271 + 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	+ 0·01 + 0·01 + 0·05 + 0·01 + 0·01 - 0·02 - 0·05	1368 Stone 1384 Stone 1398 1406 Stone
181 182 υ A 183 24 1 184 R. I 185 φ A 186 29 I 187 32 1 188 q V 189 ω A 190 R. I 191 41 1 192 34 1 193 42 1 195 θ A 196 μ A 197 53 198 υ II 199 200 Tay	Lrgûs Leonis $\mu$ P. L. 70 Lrgûs Leonis $\pi$ Leonis $\alpha$ Tolorum Lrgûs P. L. 72		+ 2·2153 + 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0093 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	 0·000 - 0·019  - 0·007 - 0·004 - 0·018 - 0·017 - 0·026	+ 16·487 + 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·447 + 17·771 + 17·821	+ 0·260 + 0·116 + 0·271 + 0·833 + 0·155 + 0·236 + 0·225 + 0·332 + 0·088	 + 0·01 + 0·05  + 0·01 + 0·01 - 0·02 - 0·05	Stone 1384 Stone 1398 1406 Stone
182  υ A 183  24  1 184  R. 1 185  φ A 186  29  1 187  32  1 188  q V 189  ω A 190  R. 1 191  41  1 192  34  1 193  42  1 195  θ A 196  μ A 197  53  1 198  υ II 199  200  Τας	rgûs Leonis μ P. L. 70 rgûs Leonis π Leonis α Tolorum Argûs P. L. 72 Leonis γ <sup>1</sup>		+ 1·5049 + 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0045 - 0.0198 - 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	0.000 - 0.019  - 0.007 - 0.004 - 0.018 - 0.017 - 0.026	+ 16·627 + 16·711 + 16·849 + 17·033 + 17·086 + 17·447 + 17·771 + 17·821	+ 0·116 + 0·271 + 0·833 + 0·155 + 0·236 + 0·225 + 0·332 + 0·088	+ 0·01 + 0·05  + 0·01 + 0·01 - 0·02 - 0·05	Stone 1384 Stone 1398 1406 Stone
183 24 1 184 R. I 185 φ A 186 29 I 187 32 I 188 q V 189 ω A 190 R. I 191 41 1 192 34 I 193 42 1 194 47 I 195 θ A 196 μ A 197 53 1 198 ν II 199 200 Tay	Leonis $\mu$ P. L. 70 Legůs  Leonis $\pi$ Leonis $\alpha$ Colorum Legůs P. L. 72	::	+ 3·4421 + 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0·0198 - 1·5506 + 0·0093 - 0·0080 - 0·0102 + 0·0118 - 0·0072	- 0·019 0·007 - 0·004 - 0·018 - 0·017 - 0·026	+ 16·711 + 16·849 + 17·033 + 17·086 + 17·447 + 17·771 + 17·821	+ 0.271 + 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	+ 0.05  + 0.01 + 0.01 - 0.02 - 0.05	1384  Stone 1398 1406 Stone
184 R. 1 185 φ A 186 29 1 187 32 1 188 q V 189 ω A 190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 198 ν II 199 200 Tay	P. L. 70 Legús  Leonis π  Leonis α  Colorum  Argús  P. I. 72  Leonis γ <sup>1</sup>		+ 10·6148 + 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	- 1.5506 + 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	- 0.007 - 0.004 - 0.018 - 0.017 - 0.026	+ 16·849 + 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.833 + 0.155 + 0.236 + 0.225 + 0.332 + 0.088	+ 0·01 + 0·01 - 0·02 - 0·05	 Stone 1398 1406 Stone
185 φ A  186 29 1  187 32 1  188 q V  189 ω A  190 R. 1  191 41 1  192 34 1  193 42 1  194 47 1  195 θ A  196 μ A  197 53  198 ν H  199  200 Tag	Legús  Leonis $\pi$ Leonis $\alpha$ Colorum  Argús  P. J. 72  Leonis $\gamma^1$		+ 2·1014 + 3·1785 + 3·2192 + 2·5238 + 1·4377	+ 0.0093 - 0.0080 - 0.0102 + 0.0118 - 0.0072	- 0.007 - 0.004 - 0.018 - 0.017 - 0.026	+ 17·033 + 17·086 + 17·147 + 17·771 + 17·821	+ 0.155 + 0.236 + 0.225 + 0.332 + 0.088	+ 0·01 + 0·01 - 0·02 - 0·05	Stone 1398 1406 Stone
186 29 1 187 32 1 188 q V 189 ω A 190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 198 ν H 199 200 Tay	Leonis π Leonis α Tolorum Argûs P. I. 72 Leonis γ <sup>1</sup>		+ 3·1785 + 3·2192 + 2·5238 + 1·4377	- 0.0080 - 0.0102 + 0.0118 - 0.0072	- 0.004 - 0.018 - 0.017 - 0.026	+ 17 086 + 17 147 + 17 771 + 17 821	+ 0.236 + 0.225 + 0.332 + 0.088	+ 0·01 - 0·02 - 0·05	1398 1406 Stone
187 32 1 188 q V 189 ω A 190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 198 ν H 199 200 Tag	Leonis a folorum Argûs P. I. 72 Leonis y <sup>1</sup>		+ 3·2192 + 2·5238 + 1·4377	$ \begin{array}{c c} -0.0102 \\ +0.0118 \\ -0.0072 \end{array} $	- 0.018 - 0.017 - 0.026	+ 17·147 + 17·771 + 17·821	+ 0.225 + 0.332 + 0.088	- 0·02 - 0·05	1406 Stone
188 q V 189 ω A 190 R. I 191 41 . 192 34 I 193 42 . 194 47 . 195 θ A 196 μ A 197 53 . 198 ν II 199 200 Tay	Tolorum Argûs P. J. 72 Leonis y¹		+ 2·5238 + 1·4377	+ 0.0118 - 0.0072	- 0.017 - 0.026	+ 17·771 + 17·821	+ 0.332 + 0.088	- 0.05	Stone
180 ω A 190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 θ A 196 μ A 197 53 1 198 ν H 199 200 Tay	Argûs P. L. 72 Leonis y	•••	+ 1.4377	- 0.0072	- 0.026	+ 17:821	+ 0.088		
190 R. 1 191 41 1 192 34 1 193 42 1 194 47 1 195 0 A 196 \( \mu \) A 197 53 198 \( \nu \) II 199 200 Tag	P. L. 72 Leonis $\gamma^1$	•••		1		· ·	,	+ 0.01	Stone
191 41 192 34 193 42 194 47 195 0 A 196 \( \mu \) A 197 53 198 \( \nu \) II 199 200 Tag	Leonis $\gamma^1$		+ 9.8682	- 1.6141	- 0.096	1 75.040	ا مدمما		Prone
192 34 1 193 42 1 194 47 1 195 0 A 196 \(\mu\) A 197 53 198 \(\nu\) II 199	•			1		+ 17.848	+ 0.648	- 0.04	1399
193 42 194 47 1195 θ A 196 μ A 197 53 198 ν H 199 200 Tag	Ursio Majoris ,	•••	+ 3:2964	- 0.0148	+ 0.021	+ 17:915	+ 0.208	+ 0.14	1432
194 47 1 195 θ A 196 μ A 197 53 198 ν H 199 200 Tag	•	ι	+ 3.0069	- 0.0361	- 0.008	+ 17.986	+ 0.225	- 0.03	1434
<ul> <li>195 θ A</li> <li>196 μ A</li> <li>197 53</li> <li>198 ν Η</li> <li>199</li> <li>200 Tay</li> </ul>	Hydræ µ	•••	+ 2.9082	+ 0.0040	- 0.010	+ 18:181	+ 0.171	+ 0.06	1451
196 μ Λ 197 53 198 ν Η 199 200 Tay	${\bf Leonis}\ \rho$		+ 3.1653	- 0.0080	- 0.001	+ 18.403	+ 0.176	- 0.01	1467
197 53 198 $\nu$ II 199 200 Tay	Argûs		+ 2.1291	+ 0.0199	0.000	+ 18.802	- - 0.100	+ 0.03	Stone
198 \(\nu\) II 199 200 Tay	Lrgûs		+ 2.5597	+1.0194	+ 0.002	+ 18.888	+ 0.117	+ 0.08	Stone
199 200 Tay	Loonis $l$		+ 3.1597	- 0.0080	- 0.002	+ 18.927	+ 0.145	+ 0.02	1500
200 Tay	l ydrae	· •••	+ 2.9504	+ 0.0052	+ 0.002	+ 18.949	+ 0.133	- 0.22	1504
	•••	•••	+ 3.1350	- 0.0063		+ 18.958	+ 0.141		
901 49	<b>y</b> lor 49 <b>1</b> 5	• • • •	+ 2.6460	+ 0.0130		+ 19:048	+ 0-113	•…	
701 .BO	Ursa Majoris /	s	+ 3.6543	- 0.0629	+ 0.000	+ 19:239	+ 0.142	- 0.05	1523
202 63	Leonis x		+ 3-1219	- 0.0056	- 0.026	+ 19:340	+ 0.113	+ 0.02	1535
203 11	Crateris &		+ 2.9442	+0.0098	- 0.002	+ 19.492	+ 0.093	+ 0.09	1545
204 68	Leonis δ	•••	+ 3.1898	- 0.0132	+ 0.010	+ 19.532	+ 0.098	+ 0.12	1546
205 70	Leonis θ		+ 3.1594	- 0.0098	- 0.006	+ 19:537	+ 0.080	+ 0.06	1548
206 12		•••	+ 3.0040	+ 0.0064	- 0.011	+ 19:638	+ 0.081	- 0.21	1557
	Crateris 5		+ 2.7188	+ 0.0302	- 0.001	+ 19.675	+ 0.069	+ 0.02	Stone
	Centauri	•••	+ 2.0990	+ 0.0082	- 0.009	+ 19.730	+ 0.070	- 0.03	1564
				+0.0167	- 0.017	+ 19.846	+ 0.023	+ 0.03	1580
210 21	Centauri Crateris γ Hydræ ξ		+ 2.9560		- 0.006	+ 19.888	+ 0.048	- 0.03	1585

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	Magnitude.	Estimations.	Righ	Mea t Asc	n ension.		Mean r Dist		Observations.	Fraction of Year.
					h.	m.	8.	٥	,	"		
	211	91 Leonis v	4.5		11	30	39.06	90	8	41.4	5	0.32
l	212	27 Crateris ζ	4.9		1.1	38	31.40	107	<b>3</b> 9	58.8	5	0.24
	213		8.4	1	11	38	45.97	149	43	8.1	1	0.40
1	214		8.9	4	11	38	51.08	148	40	12.8	4	0.39
	215	94 Leonis β (Deneb)	2.2		11	42	47.09	74	44	25.7	4	0.33
42.00	216	28 Hydræ β	4.2		11	46	42.010	123	14	25·1	5	0.24
30.00	217	X Virginis, Var. 10	10.6	10	11	55	34.06	80	14	29.7	10	0.26
32.074 54.36	218	R. P. L. 89	6.3		11	. 58	2.04 3 <del>2-12</del>	3	43	<b>50</b> ·9	5	0.68
	219	δ Centauri	3.0	5	12	1	59.385	140	2	12.8	5	0.26
424.7	220	1 Corvi a	4.3		12	2	<b>4</b> ·0 <b>2</b> 4	114	2	32.2	5	0.29
22.82	221	Taylor 5574	7.5	3	12	3	22.802	141	5	<b>58</b> ·0	3	0.39
	222	2 Corvi €	3.1	١	12	3	47.99	111	56	7.2	6	0.37
13.67	223	ρ Centauri	4.1	5	12	5	13.647	141	41	1.3	5	0.29
37.46	224	δ Crucis	3.2	5	12	8	37.426	148	3	51.0	5	0.29
28.94	225	4 Corvi γ	2.8		12	9	28.9\$4	106	51	30.7	5	0.29
	226	15 Virginis $\eta$	4.0		12	13	36.76	89	58	58·5	10	0.38
43.50	227	€ Crucis	4.0	5	12	14	43.48.50	1	· 43	14.8	5	0.27
30.03	228	7 Corvi δ	3.1		12	23	30.01 03	105	49	48.5	5	0.29
20.83	229	γ Crucis	2.1	5	12	24	20.77.83	146	25	27.1	5	0.31
8.26	230	γ Muscæ	4.2	5	12	25	8-14:26	161	27	15.8	5	0.30
	231	9 Corvi β	2.8		12	27	55.63	112	42	58·5	8	0.39
51.66	232	α Muscæ	4.1	5	12	29	51 <del>·50</del> ·66	. 158	27	29.2	5	0.31
31.73	233		9.5	1	12	32	31.74.3	84	34	48.7	1	0.42
4417	234	γ Centauri	3.1	5	12	34	44.127	138	17	0.6	5	0.29
44.88	235	β Muscæ	4.0	5	12	38	44·8 <b>0</b> 8	157	26	<b>5</b> ·0	5	0.30
32.16	236	ß Crucis	2.0	5	12	40	32·1 <b>1</b> 6	149	0	<b>57</b> ·0	5	0.30
32.14	237		10.0	3	12	44	10.46	80	44	50.7	3	0.42
•	238	R. P. L. 98	6.6		12	48	9.65	5	54	48.5	1	0.94
14.57	239	R. P. L. 99	5.6		12	48	14.96.5	5	55	4.6	8	0.50
36.51	240	77 Ursæ Majoris e (Alioth	1.8		12	48		33	22	17:9	5	0:30
	241	12 Canum Venaticorum α	3.1		12	50	16:26	51	0	59· <b>4</b>	4	0.39
49.84	242	δ Muscæ	4.0	5	12			1		9.0	5	0.33
-1 -7	243	47 Virg. ∈ (Vindemiatrix)			12			78		<b>42</b> 6	5	0.31
	244	51 Virginis θ	4.4		13			94		54.5	3	0.40
्ै 14-1 <b>क</b>	245	46 Hydræ γ	3.4		13	12	14·1\$9	112	31	18.6	5	0.32

218.—Groombridge 1850. 237.—Comparison star for Isis in 1867.

239.—Groombridge 1940.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Ri	ight Ascensi	on.	In P	olar Distanc	e.	ority.
Nun	NOOL.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		s	s	8	,,	"	"	1
211	91 Leonis v	+ 3.0718	+ 0.0003	- 0.002	+ 19:890	+ 0.049	- 0.05	1586
212	27 Crateris ζ	+ 3.0324	+ 0.0009	+ 0.001	+ 19.966	+ 0.032	+ 0.01	1598
213		+ 2.2861	+ 0.0444		+ 19∙969	+ 0.030	•••	
214		+ 2.8699	+ 0.0430		+ 19.969	+ 0.030	•••	1
215	94 Leonis <b>β</b>	+ 3.0997	- 0.0074	- 0.036	+ 19.998	+ 0.025	+ 0.10	1605
316	28 Hydræ β	+ 3.0214	+ 0.0200	- 0.005	+ 20:021	+ 0.016	- 0.01	1607
217	X Virginis	+ 3.0766	- 0.0035		+ 20.051	+ 0.000		
218	R. P. L. 89	+ 3.2017	- 0.4950		+ 20.054	- 0.006		
219	δ Centauri	+ 3.0861	+ 0.0380	0.000	+ 20.054	- 0.013	+ 0.01	Stone
220	1 Corvi α	+ 3.0776	+ 0.0123	+ 0.002	+ 20.054	- 0.013	+ 0.03	1624
221	Taylor 5574	+ 3.0967	+ 0.0395		+ 20.052	- 0.012	,	
222	2 Corvi ε	+ 3.0812	+ 0.0142	- 0.006	+ 20.052	- 0.016	- 0.02	1626
223	ρ Centauri	+ 3.1108	+ 0.0410		+ 20.049	- 0.010		1
224	δ Crucis	+ 3.1531	+ 0.0526	0.000	+ 20:040	- 0.026	+ 0.05	Stone
225	4 Corvi γ	+ 3.0890	+ 0.0116	- 0.012	+ 20.037	- 0.028	- 0.03	1638
226	15 Virginis η	+ 3.0722	+ 0.0027	- 0.006	+ 20.018	- 0.035	+ 0.02	1647
227	e Crucis	+ 3.2192	+ 0.0586		+ 20.013	- 0.039		
228	7 Corvi δ	+ 3.1110	+ 0.0118	- 0.014	19 949	- 0.055	+ 0.15	1675
229	γ Crucis	+ 3.2859	+ 0.0542	0.000	+ 19.941	- 0.060	+ 0.30	Stone
230	γ Musea	+ 3.5084	+ 0.1167		+19.934	- 0.065		
231	9 Corvi 8	+ 3.1402	+ 0.0164	- 0.003	+ 19:906	  - 0.064	+ 0.05	1685
232	α Muscae		+ 0.0006	}	+ 19.885	- 0.075	'	
233		1	+ 0.0000	1	+ 19.852	- 0.071	1	
234	γ Centauri		+ 0.0418		+ 19.825	- 0.082		""
235	β Museæ		+ 0.0997	- 0.014	+ 19.769	- 0·097	+0.04	Stone
236	β Crucis	+ 3.4639	+ 0.0654	- 0.000	+ 19.742	0.005	1 0.00	
237			- 0.0003		+19.683	- 0·097 - 0·092	+0.03	Stone
238	R. P. L. 98		+ 0.2182	- 0.017	+ 19.613	- 0.032	0.08	1730
239	R. P. L. 99	+ 0.3769	1	- 0.020	+19.613 $+19.612$	1	- 0.02	1
240	77 Ursæ Majoris e		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			- 0.019	- 0.02	1731
			- 002/3	+ 0.012	+19.605	<b>– 0</b> ·089	+0.02	1722
241	12 Canum Venat. α	+ 2.8368	- 0.01.52	- 0.022	+ 19.574	- 0.098	- 0.07	1725
242	δ Muscæ	+ 3.8690	+ 0.1372	+ 0-042	+ 19.504	- 0.143	0.00	Stone
243	47 Virginis	+ 3.0057	- 0.0007	- 0.019	+ 19:457	- 0.114	- 0.03	1735
244	51 Virginis θ		+ 0.0078	- 0.004	+ 19.287	- 0.132	+ 0.04	1747
245	46 Hydræ γ	+ 3.2441	+ 0.0187	+ 0.002	+19.066	- 0.155	+ 0.03	1764
		- W. W	1	1.	-	1	7	-
<u>                                     </u>	The second secon	ı					7	1

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	Magnitude.	Estimations.	Right	Mean Asce	ension.	I Polar	Mean Dista	nce.	Observations.	Fraction of Year.	
					h.	m.	8.	•	,	"		1	
41.05	246	ι Centauri	3.8	5	13	13	41.00 5	126	3	45.1	5	0.33	
	247	67 Virginis a (Spica)	1.2		13		42.82	100	31	6.7	4	0.38	
	248	R. P. L. 103	7-0		13		40.95		-	10.1	3	0.71	
	249	79 Virginis 🕻	3.2		13	28	25.54	89	57	57.1	4	0.38	
6.00	250	e Centauri	3-1	5	13	32	5 64	142	50	23.2	5	0.35	
8:01	251	ν Centauri	3.8	5	13	42	\$.01 7.96	131	4	24.7	5	0.37	
12.73	252	μ Centauri	8.7	5	13	42	12.703	131	51	36.8	5	0.35	
52.524	253	Centauri	3-1	5	13	47	52.53 4	136	40	54.6	5	0.39	
49.71	254	8 Bootis η	-2-9		13	48	49.68.71	70	59	6.2	5	0.41	l
48.00	255	φ Centauri	4-7	4	13	50	42.86	131	29	55.9	5	0.32	Į
7003		a. <b>1000</b>								ا د د		0.00	
	256	Stone 7666	8.5	1	13	51	25.75	123	47	45.6	1	0.36	
	257	98 Virginis 7	4.3		13	55	23.18	87	51	34.1	6	0.41	ĺ
26.92	258	5 Centauri 0			13	59	26.88.92	125	45	50.1	5	0.36	l
14.42	259	R. P. L. 108	1		14	2	15:34	3	39	10.1	1	0.42	
	260	16 Bootis a (Arcturus)	0.0		14	10	3.12	70	10	35.7	5	0.37	
34.15	261	W. B. E. XIV. 192	7.8	3	14	12	34.12.5	103	50	19.9	3	0.41	
	262	25 Bootis ρ	3.6		14	26	31.76	59	5	16:3	4	0.38	İ
26 59.98	263	R. Camelopardi, Var. 1	. 10.0	7	14	-27	0.12	5	36	42.4	7	0.03	
42.15	264	η Centauri	3.3	5	14	27	42.105	131	36	59.4	5	0.32	
35.37	265	a Circini	4.2	5	14	32	35.24.37	154	26	18.0	5	0.37	
·	266	26 Dookin - (Wings)	2.6		14	39	7.00 3 <b>6:96</b>		24	22.7		0.43	
37.00 4.59	267	36 Bootis ε (Mirac) 9 Libræ α <sup>2</sup>	3.0		14	44	4·589	62	31	45.4	2	0.45	
28.97	268	A.T	9.0	5	14	50	-	105 132	38	12·3 12·3	.3 5	0.40	(12.57
ירט יטו	269	0	9.1	5	14		28-9 <b>2</b> 7	132	36	31·9	1	0.40	
18.77	270	42 Bootis $\beta$	0.0		14		18:7 <b>6</b> 7	49	30 7	21.5	5	0.40	1
1,	2.0			"		••	-0.141	300	•		"	0.20	11
	271	43 Bootis ψ	4-5		14	59	10.49	62	34	18.4	3	0.45	11
27.51	272	{ Lupi	4.0		15		•	141	37	45.3	5	0.40	11
14.08	273		7.0		15	4		5	34	24.8	2	0.21	11
26.72	274	1.	3.2	5	15	7		158	13	22.4	5	0.42	
	275	27 Libræ β	2.7	-	15	10		98	5 <b>5</b>	39.8	2	0.44	
	276	U Coronæ, Var. 4	8-6	10	15	13	10.69	57	54	8:5	10	0.37	11
ا م و ال	277		1 4.4	5	1		£			5.2-	5	0.43	[5.2]
19.75	278	) -	1	- 1	.1			134			5	0.46	1100
[ 20.08]	279	-	9.1					109			3	0.52	11
18.01 16.75 [20.08]	280		6.9	i			2.55	2			1	0.90	11
21.20											1. 1		1

248.—Groombridge 2007. 259.—Groombridge 2099. 273.—Groombridge 2213. 280.—Groombridge 2283.

Number.	Star.	In Ri	ght Ascensi	on.	In l	Polar Distan	3e.	rity.
Nun	Sual.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
	. 11	s	s	5	"	"	,,	
246	ι Centauri	+ 3.3898	+ 0.0302		+ 19.027	- 0.164	•••	
247	67 Virginis α	+ 3.1558	+ 0.0116	0°004·	+ 18.883	- 0.163	+ 0.02	1774
248	R. P. L. 103	- 2.5861	+ 0.9398		+ 18.855	+ 0.121		
249	79 Virginis (	+ 3.0719	+ 0.0064	- 0.021	+ 18.580	- 0.176	- 0.06	1789
250	€ Centauri	+ 3.7621	+ 0.0588	- 0.018	+ 18.459	- 0.223	+ 0.02	Stone
251	v Centauri	+ 3.5744	+ 0.0379		+ 18.096	- 0.233		
252	μ Centauri	+ 3.5889	+ 0.0390	+ 0.001	+ 18.093	- 0.234	- O·02	Stone
253	Centauri	+ 3.7151	+ 0.0469	- 0.012	+ 17 874	- 0.254	+ 0.02	Stone
254	8 Bootis $\eta$	+ 2.8616	- 0.0006	- 0.005	+ 17 835	- 0.199	+ 0.34	1821
255	φ Centauri	+ 3.6220	+ 0.0388		+ 17.756	- 0.254		
256	Stone 7666	+ 3.4904	+ 0.0295		+ 17:731	- 0.244		
257	93 Virginis τ	+ 3.0481	+ 0.0064	- 0.001	+ 17.566	- 0.222	+ 0.03	1829
<b>25</b> 8	5 Contauri θ	+ 3.5517	+ 0.0318	- 0.043	+ 17.392	+ 0.265	- O <sup>.</sup> 56	Stone
259	R. P. L. 108	- 7.5776	+ 2.4030		+ 17.268	+ 0.555		
260	16 Bootis a	+ 2.8131	+ 0.0004	- 0-080	+ 16 910	- 0.227	+1.98	1847
261	W. B. E. XIV. 192	+ 3.2524	+ 0.0146		+ 16.791	- 0.266		
262	25 Bootis ρ	+ 2.5946	- 0.0015	- 0.009	+ 16.093	- 0.233	- 0.13	1869
263	R. Camelopardi	- 5.0692	+ 1.0592		+ 16.069	+ 0.436	; •••	
264	η Centauri	+ 3.7857	+ 0.0389	- 0.009	+ 16.031	- 0.339	- 0.01	Stone
265	a Circini	+ 4.7987	+ 0.1116		+ 15.771	- 0.439		
266	36 Bootis e	+ 2.6240	- 0.0001	- 0·004	+ 15.384	- 0.252	- 0.00	1890
267	9 Libra a2	+ 3:3160	+ 0.0154	- 0.009	+ 15·131	- 0.324	+ 0.07	1894
268	ß Lupi	+ 3.9057	+ 0.0392	- 0.014	+ 14:757	- 0.392	+ 0.03	Stone
269	κ Contauri	+ 3.8788	+ 0.0378		+ 14.717	- 0.390		
270	42 Bootis \$	+ 2.2636	+ 0.0000	- 0.002	+ 14.346	- 0.237	+ 0.04	1918
271	43 Bootis ψ	+ 2 5834	+ 0.0010	- 0.012	+ 14:232	- 0.271	+ 0.01	1922
272	ζ Lupi		+ 0.0549		+ 13.965	- 0.454		
273	R. P. L. 111	- 6·7930	+ 1.1646		+ 13.916	+ 0.708		
274	1	+ 5.5140	+ 0.1397	- 0.018	+ 13.712	- 0.593	+ 0.03	Stone
275	2 <b>6</b> Libræ β	+ 3.2273	+ 0.0117	- 0.008	+13.523	- 0.353	+ 0.02	1934
276			+ 0.0013		+ 13.342	- 0.272		
277	_	+ 3.9162	+ 0.0340	+ 0.001	+ 13.334	- 0.433	- O.O3	Stone
278		+ 4:0487	+ 0.0395		+ 13.267	- 0.449	•••	
279	S Libræ	+ 3.4360	+ 0.0170		+ 13.270	- 0·382		
280	R. P. L. 114	- 22:2337	+ 7.5198		+ 13.052	+ 2.456		

Mean Positions of Stars for 1877, January 1st.

		Number.	Star.		Magnitude.	Estimations.	Right	Mear Asce	n ension.		Mean Dista	nce.	Observations.	Fraction of Year.	
							h.	m.	s.	•	,	"			
	56.22	281	13 Ursæ Minoris γ		3.2		15	20	56.39 12	17	43	40.5	5	0.42	
	11.98	282	12 Draconis		3.4		15	22	11.98 1 <del>2.08</del>	30	36	9.5	5	0.45	
	1	283	γ Lapi		3.2	4	15	26	56.83	130	45	5.3	5	0.43	
	1	284	37 Libræ	•••	4.9		15	27	27.53	99	38	27.9	5	0.42	
	55.60	285	13 Serpentis 5—2nd		5.3		15	28	55.58	79	2	52.4	5	0.45	
		286	5 Cor. Bor. a (Alpheta)		2.4		15	29	28.84	62	52	12:3	7	0-49	
	33.56	287	39 Libræ		3.9		15	29	33.5\$6	117	43	32.7	5	0.44	
	li.	288	24 Serpentis a		2.7		15	38	12.62	83	11	9.0	10	0.48	
	30.65	289	28 Serpentis β		3.8	<b> </b>	15	40	30.645	74	11	31.4	5	0-42	
	8.68	290	5 Lupi χ		4.0		15	43	8.66 8	123	15	3.5	5	0.44	
					0.5			40	10.00	00	•	0.0	5	0.41	
		291	32 Serpentis $\mu$	***	3·5 3·3	5	15 15	43	12.08	93 153	3 2	8·3 56·0	5	0.49	
	41.07	292 293	& Trianguli Australis		3·7	1	15	44 44	19·13 41·0\$ 7	85	9	0.2	5	0.50	5v
	- ' 11	293	37 Serpentis ε 45 Libræ λ	""	5·0		15	46	11.82	109	47	50·5	\$	0.48	3
11.82	<del>विक ।श्र</del> ी	294	ì	**	7.0		15	46	24.75 34	4	46	19.4	3	0.03	5
	24.34	490	R. P. L. 115	***	7-0		19	40	24 10 24	7	40	19 4		0.00	
		296	5 Scorpii ρ		4.0		15	49	17:49	118	51	11.1	5	0.47	
	,	297	41 Serpentis γ		4.0		15	<b>5</b> 0	46.29	73	56	10.1	5	0.42	
	24.58	298	6 Scorpii #		3.1		15	51	24.558	115	45	28.7	5	0.47	
		299	8 Scorpii 8 1		3.0		15	58	17.18	109	28	0.3	16	0.49	
	35.25	300	13 Draconis θ		4.2		15	<b>5</b> 9	35·33·25	31	6	<b>19·2</b>	5	0.41	
	1.22	301	R. P. L. 116		7.0		16	2	1.93.22	4	20	52·1	5	0.66	
	1.77	302	1		2.8		16			93	22	33.9	15	0.49	2.60-
		303	-		3.4					94	23	33.1	5	0.41	[25.8]
	29.83	304	, -		3.8	١	٠.,			70	33	26.0	5	0.42	
	·	305	1	ı	1.1					116	9	24.7	11	0.53	
						_									
		306		•••	4.1	5	16			124		3.5	5	0-46	
	10.51	307			2.8		l.			68		28.5	5	0.48	28.5
	·	308		•••	10.9	9	1		•	1		1.9	9	0.43	
	39.01	309	•	•••	3.1	"	1			1		24.7	11	0.53	
		310	44 Herculis $\eta$	•••	3.7		. 16	38	3 40.72	50	50	33.7	5	0.48	11
		311	η Aræ		4.6	5	16	39	10.48	148	49	9.1	5	0.50	11
	11.57	312	2 26 Scorpii ∈		2.2		. 16	3 42	11.947	124	4	3.8	5	0.57	]] ·
	1	318	μ¹ Scorpii		3.5	2	16	3 48	32.44	127	50	2.8	2	0.54	1
		314	μ² Scorpii	• •••	42	5	16	3 44	0.33	127	48	20.2	5	0.20	
		315	ζ¹ Scorpii	•	46	5	16	3 4	5 19.14	132	9	17.2	5	0.53	
		<u> </u>	205 _ Comin		<u> </u>	<u> </u>				1 201 — Co		on 2423			_11

295.—Carrington 2380.

301.—Carrington 2423.

B I	Star.	In R	ight Ascensi	on.	In P	olar Distanc	Θ.	Authority.
Number.	S bear.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Auth
		8	8	8	"	,,	11	
281	13 Ursæ Minoris γ	- 0.1426	+ 0.0750	+ 0.004	+ 12.828	+ 0.010	- 0.02	1962
282	12 Draconis	+ 1.3267	+ 0.0133	- 0.002	+ 12.743	- 0.155	<b>-</b> 0·02	1957
283	γ Lupi	+ 3.9767	+ 0.0331	- 0.002	+ 12.420	- 0.460	+ 0.02	Stone
284	37 Libræ	+ 3.2508	+ 0.0116	+ 0 018	+ 12:384	- 0.378	+0.24	1960
285	13 Serpentis δ—2nd	+ 2.8677	+ 0.0052	- 0.006	+ 12:283	- 0.336	- 0.02	1969
286	5 Coronæ Borealis α	4 2.5297	+ 0.0033	+ 0.000	+ 12:246	- 0.297	+ 0.09	1973
287	39 Libræ	+ 3.6288	+ 0.0210	- 0.004	+ 12.239	- 0.424	- 0.00	1966
288	24 Serpentis a	+ 2.9421	+ 0.0062	+ 0.008	+ 11.631	- 0.354	0.06	1990
289	28 Serpentis β	+ 2.7617	+ 0.0043	+ 0.003	-  11:466	- 0.336	+ 0.04	1996
290	5 Lupi χ	+ 3.7971	+ 0.0238	- 0.002	+ 11:276	- 0.463	- 0.01	1998
291	32 Serpentis μ	+ 3.1312	+ 0.0089	- 0.008	+ 11.272	- 0.383	+ 0.01	2001
292	β Trianguli Australis	+ 5.2542	+ 0.0864	- 0.027	+ 11.191	- 0.640	+043	Stone
293	37 Serpentis &		+ 0.0066	+ 0.007	+ 11.165	- 0.365	- 0.06	2005
294	45 Libræ λ	- <del> -</del> 3·4 <b>7</b> 38	+ 0.0152	- 0.003	+ 11.054	- 0.428	+0.01	2007
295	R. P. L. 115	- 10.2987	+ 1.5309		+ 11.038	+ 1.249	•••	
296	5 Scorpii ρ	+ 3.6922	+ 0.0200	- 0.003	+ 10.827	- 0.458	+0.02	2017
297	41 Sorpentis γ	+ 2.7468	+ 0.0043	+ 0.019	+ 10.718	- 0.344	+1:29	2023
298	6 Scorpii π	+ 3.6184	+ 0.0179	- 0.003	+ 10.671	- 0.452	+ 0.03	2020
299	8 Scorpii <b>β</b> <sup>1</sup>	+ 3.4797	+ 0.0142	- 0.003	+ 10.156	- 0.441	+ 0.03	2034
300	13 Draconis θ	+ 1.1552	+ 0.0145		+ 10.057	- 0.150	- 0.33	
301	R. P. L. 116	- 12·2337	+ 1.7482		+ 9.875	+ 1.549		
302	1 Ophiuchi δ	+ 3.1419	+ 0.0081	- 0.005	+ 9.423	- 0.408	+ 0.14	2065
303	2 Ophiuchi e	- - 3·163€	+ 0.0083	+ 0.004	+ 9.119	- 0.415	- 0.03	2073
304	20 Herculis γ	+ 2.6477	+ 0.0038	- 0.005	+ 8.753	- 0.351	- 0.05	2084
305	21 Scorpii α	+ 3.0696	+ 0.0120	- 0.002	+ 8:327	- 0.491	+ 0.03	2091
306	α Norma:	+ 3.9085	+ 0.0183		+ 8.209	- 0.524		
307	27 Herculis β	+ 2.5838	+ 0.0037	- 0.009	+ 8.082	- 0.348	+ 0.03	2100
308	S Ophiuchi, Var. 3	+ 3 4456	+ 0.0109		+ 7.902	- 0.465		
309	40 Herculis (	+ 2.2968	+ 0.0033	- 0.036	+ 7.134	- 0.316	- 0.41	2127
310	44 Herculis η	+ 2.0513	+ 0.0037	+ 0.003	+ 6.968	- 0.284	+ 0.08	2133
311	η Aræ	+ 5.1454	+ 0.0153	0.000	+ 6.927	- 0.707	+ 0.02	Stone
312	26 \$ <b>c</b> orpii ε	+ 3.9247	+ 0.0165	- 0.050	+ 6.678	- 0.543	+0.27	2132
313	μ¹ Scorpii	+ 4.0533	+ 0.0180	- 0.007	+ 6.567	- 0.562	0.00	Stone
314	μ <sup>2</sup> Scorpii	+ 4.0529	+ 0.0179		+ 6.529	- 0.562		
315	ζ¹ Scorpii	+ 4.2188	+ 0.0205	+ 0.003	+ 6.420	- 0.586	+ 0.04	Stone

Mean Positions of Stars for 1877, January 1st.

67												
	Number.	Star.	Magnitude.	Estimations.	Right	Mean Asc	ension.	Polar	Mean Dista	nce.	Observations.	Fraction of Year.
1					h.	m.	8.	۰	,	"		
55.84	316	ζ <sup>2</sup> Scorpii	3.2	5	16	45	55·7 <del>9</del> 84	132	8	52.8	5	0.23
1	317	ζ Aræ	3.7	5	16	48	26-92	145	<b>4</b> 7	35.9	5	0.20
	318	€¹ A.ræ	4.2	5	16	49	47.09	142	58	6.3	5	0.20
1	319	27 Ophiuchi κ	3.4		16	<b>51</b>	50.73	80	25	55.3	7	0.54
	320	58 Herculis €	. 4.0		16	55	34:87	58	53	28.7	5	0.47
	321	22 Ursæ Minoris $\epsilon$	4.5		16	58	38.57	7	45	47.4	4	0.10
Į	322	η Scorpii	. 3.7	5	17	3	20.73	133	4	26.6	5	0.48
.) 40'77	323	U Ophiuchi, Var. 5	. 9.5	10	17	3	40.747	106	11	52.3	10	0.43
<b>X</b> /\	324	22 Draconis (	. 3.3		17	8	26 12	24	8	1.1	5	0.49
$L^{x}$	325	64 Herculis al, Var. 1	. Var.		17	9	2.35	75	28	3.8	7	0.55
4.29	326	ζ Apodis	4:3	4	1.7	9	9.269	157	38	19·1	5	0.57
45.83	327	67 Herculis π	3.4		17	10	45 84 3	53	3	3.2	5	0.53
38.0 <b>9</b>	328	68 Herculis u, Var. 7 .	5.8	10	17	12	47.21	56	46	3.4	10	0.43
	329	40 Ophiuchi ξ	4.5		17	13	38·00 <b>2</b> 4	110	58	42.7	5	0.53
	330	42 Ophiuchi θ	3.4		17	14	27.43	114	52	27.3	2	0.56
	331	γ Aræ	3·1	3	17	15	2.47	146	15	32.6	3	0.59
	352	β Aræ	3.0	1	17	15	4.46	145	24	36.7	1	0.63
	333	δ Aræ	40	5	17	19	59.86	150	34	39.5	5	0.20
	334	α Aræ	3.2	5	17	22	19.95	139	46	33.8	5	0.47
	335	34 Scorpii v	2.8		17	22	23.96	`127	11	43.3	5	0.20
15.30	336	35 Scorpii A	1.7		17	25	15:28:30	127	0	42.7	5	0.54
	337	θ Scorpii	3.1	5	17	28	28.75	132	55	1.6	5	0.48
	338	55 Ophiuchi α	2.2		17	29	13.47	77	20	55.8	7	0.61
	339	η Pavonis	4.6	5	17	33	39.57	154	39	42.4	5	0.48
<b>2</b> 1.1	340	Taylor 8199	9.5	1	17	36	41.05	65	21	50.8	1	0.47
	341	69 Ophiuchi β	2.9		17	37	23.75	85	22	44.7	5	0.48
	342	1º Scorpii	3.7	5	17	38	58.90	130	4	35.8	5	0.52
49.10	343	3 Sagittarii, Var. 7	4:6	8	17	39	49.08.10	117	46	54.3	10	0.51
28.99	344	Taylor 8229	4.0	5	17	41	28.97 9	127	0	6.0	5	0.55
	345	86 Herculis μ	3.5		. 17	41	38 67	62	12		8	0.56
13.54	346	Lacaille 7494	70	3	17	48	13: <del>28</del> :31	122	27	7.2	3	0.61
•	347	Lacaille 7506	7.0	3	17	48	43.89	116			3	0.63
46.53	348	1	70	2	17	48	46·5 <b>0</b> 3	122	40		3	0.62
•	349	1 -	3.5		. 17	52		99			5	0.47
	350	θ A.ræ	4·1	E	17	57		140	-5		5	0.50

[58.6]

S	ber.	Star.	In Rig	ght Ascensio	on.	In P	olar Distanc	e.	rity.
316   \$\cap{\cap{c}} \cap{\cap{c}} \cap{c}	Number.	Star.							Authority.
317   ( Arws + 4-9439   + 0.0348   - 0.013   + 6.160   - 0.689   + 0.08   3tc   318   ε' Arws + 4-7619   + 0.0300   - 0.008   + 6.048   - 0.665   0.00   319   27 Ophiuchi κ + 2.8568   + 0.0044   - 0.021   + 5.876   - 0.402   - 0.02   320   58   Herculis ε + 2.2971   + 0.0032   - 0.005   + 5.563   - 0.324   + 0.03   321   22   Ursas Minoris ε   - 0.3854   + 0.3082   + 0.009   + 5.306   + 0.896   + 0.00   322   η Scorpii   + 4.2842   + 0.0167   - 0.003   + 4.907   - 0.608   + 0.26   323   U Ophiuchi, Var. 5 + 3.4489   + 0.0167   - 0.003   + 4.474   - 0.025   - 0.02   324   22 Draconis ξ   + 0.1633   + 0.0193   - 0.003   + 4.474   - 0.025   - 0.02   325   64   Herculis α   + 2.7343   + 0.0035   - 0.002   + 4.422   - 0.301   - 0.03   326   ζ Apodis   + 6.2424   + 0.0522     + 4.413   - 0.890     327   67   Herculis π   + 2.20897   + 0.0031   - 0.004   + 4.102   - 0.318   - 0.01   329   40 Ophiuchi ξ   + 3.6799   + 0.0031   - 0.004   + 4.102   - 0.318   - 0.01   330   42 Ophiuchi ξ   + 3.6799   + 0.0080   - 0.002   + 3.959   - 0.528   + 0.04   331   γ Arws     + 4.9738   + 0.0225   + 0.002   + 3.906   - 0.713   + 0.03   333   δ Arus   + 4.9738   + 0.0225   + 0.002   + 3.906   - 0.713   + 0.03   333   δ Arus   + 4.9738   + 0.0225   + 0.002   + 3.281   - 0.667   + 0.10   335   δ Scorpii λ   + 4.6316   + 0.0149   - 0.005   + 3.281   - 0.667   + 0.10   336   δ Scorpii λ   + 4.9685   + 0.0097   - 0.004   + 3.275   - 0.587   + 0.03   337   δ Scorpii λ   + 4.9685   + 0.0030   + 0.007   + 0.007   + 0.007   + 0.006   337   δ Scorpii λ   + 4.9336   + 0.0030   + 0.007   + 0.007   + 0.006   + 0.006   337   δ Scorpii λ   + 4.9336   + 0.0030   + 0.007   + 0.007   + 0.006   + 0.008   340   Taylor 8199   + 2.9648   + 0.0030   + 0.007   + 0.007   + 0.006   + 0.006   341   60 Ophiuchi β   + 2.9648   + 0.0030   + 0.007   + 0.007   + 0.006   + 0.000   342   Arws   - 0.008   + 0.0000   + 0.0000   + 0.006   + 0.0000   + 0.000			8	s	s	u u	,,	,,	1
318   ε Arab   Arab   A 47619   + 0.0300   -0.008   + 6.048   -0.665   0.00   Ste	316	ζ² Scorpii	+ 4·2196	+ 0.0203	- 0.021	+ 6:369	- 0.587	+ 0.20	Stone
319   27 Ophiuchi κ	317	ζ Aræ	+ 4.9439	+ 0.0348	- 0.013	+ 6.160	- 0.689	+ 0.08	Stone
320   58   Heroulis ε     + 2-2971   + 0-0032   -0-005   + 5-568   -0-324   + 0-03   21	318	ε¹ A.rao	+ 4.7619	+ 0.0300	- 0.008	+ 6.048	- 0.665	0.00	Stone
321   22 Ursao Minoris	319	27 Ophiuchi κ	+ 2.8568	+ 0.0044	- 0.021	+ 5.876	- 0.402	- 0.02	2156
322 $\eta$ Scorpii + 4.2842 + 0.0107 - 0.003 + 4.907 - 0.608 + 0.26 Storpii + 4.2842 + 0.0107 - 0.003 + 4.907 - 0.608 + 0.26 Storpii + 0.1633 + 0.0193 - 0.003 + 4.474 - 0.025 - 0.02 21 325 64 Herculis $\alpha^4$ + 2.7343 + 0.0035 - 0.002 + 4.422 - 0.391 - 0.03 21 325 64 Herculis $\pi$ + 6.2424 + 0.0522 + 4.433 - 0.890	320	58 Herculis €	+ 2.2971	+ 0.0032	- 0.002	+ 5.263	- 0.324	+ 0.03	2161
323 U Ophiuchi, Var. 5 $+$ 3·4489 $+$ 0·0074 $+$ 4·879 $-$ 0·490	321	22 Ursæ Minoris e	— 6:3854	+ 0.3082	+ 0.009	+ 5:306	+ 0.896	+ 0.00	2201
324 22 Draconis ζ + 0·1633 + 0·0193 - 0·003 + 4·4·44 - 0·025 - 0·02 21 325 64 Herculis a 1 + 2·7343 + 0·0035 - 0·002 + 4·4·22 - 0·391 - 0·03 21 326 ζ Apodis + 6·24·24 + 0·05·22 + 4·4·13 - 0·890 327 67 Herculis π + 2·0807 + 0·0032 - 0·004 + 4·2·75 - 0·300 - 0·01 21 323 68 Horculis u + 2·2148 + 0·0031 - 0·004 + 4·102 - 0·318 - 0·01 21 329 40 Ophiuchi ξ + 3·5·744 + 0·0073 + 0·017 + 4·030 - 0·513 + 0·20 21 330 42 Ophiuchi θ + 3·6·799 + 0·0080 - 0·002 + 3·959 - 0·5·28 + 0·04 21 331 γ Arω + 5·0354 + 0·0235 - 0·004 + 3·909 - 0·722 + 0·01 Ste 332 β Arω + 5·4068 + 0·0263 - 0·009 + 3·483 - 0·777 + 0·09 Ste 333 δ Arω + 4·6316 + 0·0149 - 0·005 + 3·281 - 0·667 + 0·10 Ste 335 34 Scorpii ν + 4·0732 + 0·0097 - 0·004 + 3·275 - 0·587 + 0·03 22 336 35 Scorpii λ + 4·0685 + 0·0090 - 0·001 + 3·029 - 0·588 + 0·02 23 337 θ Scorpii λ + 4·0685 + 0·0090 - 0·001 + 3·029 - 0·588 + 0·02 24 339 η Pavonis + 5·8771 + 0·0226 + 2·300 - 0·683 340 Taylor 8199 + 2·4623 + 0·0027 + 2·037 - 0·358 341 60 Ophiuchi β + 2·9648 + 0·0030 - 0·004 + 1·974 - 0·431 - 0·17 22 342 ι· Scorpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Ste 343 3 Sagittarii, Var. 7 + 3·7738 + 0·0048 + 1·764 - 0·549 344 1 Taylor 8229 + 4·0764 + 0·0055 + 1·618 - 0·594	322	η Scorpii	+ 4.2842	+ 0.0167	- 0.003		- 0.608	+ 0.26	Stone
325 64 Herculis 31 + 2.7343 + 0.0035 - 0.002 + 4.422 - 0.391 - 0.03 21 326 $\langle$ Apodis + 6.2424 + 0.0522 + 4.413 - 0.0890 327 67 Herculis $\pi$ + 2.0897 + 0.0032 - 0.004 + 4.275 - 0.300 - 0.01 21 328 68 Horculis $\langle$ + 2.2148 + 0.0031 - 0.004 + 4.102 - 0.318 - 0.01 21 329 40 Ophiuchi $\langle$ + 3.6744 + 0.0073 + 0.617 + 4.030 - 0.613 + 0.20 21 330 42 Ophiuchi $\partial$ + 3.6799 + 0.0080 - 0.002 + 3.959 - 0.528 + 0.01 21 331 $\gamma$ Arz + 5.0354 + 0.0235 - 0.004 + 3.909 - 0.722 + 0.01 States and $\partial$ Arz + 5.4068 + 0.0225 + 0.002 + 3.906 - 0.713 + 0.03 States and $\partial$ Arz + 5.4068 + 0.0263 - 0.009 + 3.483 - 0.777 + 0.09 States and $\partial$ Arz + 4.6316 + 0.0149 - 0.005 + 3.281 - 0.667 + 0.10 States and $\partial$ Arz + 4.0636 + 0.0097 - 0.004 + 3.275 - 0.587 + 0.03 22 336 35 Scorpii $\partial$ + 4.0685 + 0.0090 - 0.001 + 3.029 - 0.588 + 0.05 22 337 $\partial$ Scorpii + 4.0685 + 0.0090 - 0.001 + 3.029 - 0.588 + 0.02 23 338 55 Ophiuchi $\partial$ + 2.7749 + 0.0030 + 0.007 + 2.685 - 0.402 + 0.22 22 339 $\eta$ Pavonis + 5.8771 + 0.0226 + 2.300 - 0.853	323	U Ophiuchi, Var. 5	+ 3.4489	+ 0.0074		+ 4.879	- 0.490	•••	
326 $\langle \text{Apodis} \dots + 6.2424 + 0.0522 \dots + 4.413 - 0.6890 \dots $ 327 67 Herculis $\pi$ + 2.0897 + 0.0032 - 0.004 + 4.275 - 0.300 - 0.01 21 328 68 Herculis $u$ + 2.2148 + 0.0031 - 0.004 + 4.102 - 0.318 - 0.01 21 329 40 Ophiuchi $\xi$ + 3.5744 + 0.0073 + 0.617 + 4.030 - 0.513 + 0.20 21 330 42 Ophiuchi $\theta$ + 3.6799 + 0.0080 - 0.002 + 3.959 - 0.528 + 0.01 21 331 $\gamma$ Aræ + 5.0354 + 0.0235 - 0.004 + 3.909 - 0.722 + 0.01 Ste 332 $\beta$ Aræ + 4.9738 + 0.0225 + 0.002 + 3.906 - 0.713 + 0.03 Ste 333 $\delta$ Aræ + 5.4068 + 0.0263 - 0.009 + 3.483 - 0.777 + 0.09 Ste 334 $\delta$ Aræ + 4.6316 + 0.0149 - 0.005 + 3.281 - 0.667 + 0.10 Ste 335 $\delta$ Ascorpii $v$ + 4.0732 + 0.0097 - 0.004 + 3.275 - 0.587 + 0.03 22 336 $\delta$ Scorpii $\lambda$ + 4.0685 + 0.0097 - 0.004 + 3.275 - 0.587 + 0.02 Ste 337 $\delta$ Scorpii $\delta$ + 4.3036 + 0.0100 + 0.001 + 2.750 - 0.623 + 0.02 Ste 338 $\delta$ Scorpii $\delta$ + 4.27749 + 0.0030 + 0.007 + 2.685 - 0.402 + 0.22 22 339 $\gamma$ Pavonis + 5.8771 + 0.0226 + 2.300 - 0.853 340 Taylor 8199 + 2.4623 + 0.0027 + 2.037 - 0.358 341 $\delta$ Ophiuchi $\beta$ + 2.9648 + 0.0030 - 0.004 + 1.974 - 0.431 - 0.17 22 342 $\delta$ Scorpii + 4.1923 + 0.0027 + 2.037 - 0.358 343 Sa Gittarii, Var. 7 + 3.7738 + 0.0048 + 1.764 - 0.649 344 Taylor 8229 + 4.0764 + 0.0055 + 1.618 - 0.594	324	22 Draconis (	+ 0.1633	1 '	- 0.003	+ 4.474	- 0.025	- 0.02	2193
327 67 Herculis $\pi$ + 2:0897 + 0:0032 - 0:004 + 4:275 - 0:300 - 0:01 21 328 68 Horculis $u$ + 2:2148 + 0:0031 - 0:004 + 4:102 - 0:318 - 0:01 21 329 40 Ophiuchi $\xi$ + 3:5744 + 0:0073 + 0:017 + 4:030 - 0:513 + 0:20 21 330 42 Ophiuchi $\theta$ + 3:6799 + 0:0080 - 0:002 + 3:959 - 0:528 + 0:01 21 331 $\gamma$ Arc + 5:0354 + 0:0235 - 0:004 + 3:909 - 0:722 + 0:01 State 332 $\beta$ Arc + 4:9738 + 0:0225 + 0:002 + 3:906 - 0:713 + 0:03 State 333 $\delta$ Arc + 5:4068 + 0:0263 - 0:009 + 3:483 - 0:777 + 0:09 State 334 $\alpha$ Arc + 4:6316 + 0:0149 - 0:005 + 3:281 - 0:667 + 0:10 State 335 34 Scorpii $\nu$ + 4:0732 + 0:0097 - 0:004 + 3:029 - 0:588 + 0:03 22 336 35 Scorpii $\lambda$ + 4:0685 + 0:0097 - 0:004 + 3:275 - 0:587 + 0:03 22 336 35 Scorpii + 4:3036 + 0:0100 + 0:001 + 2:750 - 0:623 + 0:02 23 339 $\eta$ Pavonis + 5:8771 + 0:0226 + 2:300 - 0:855 339 $\eta$ Pavonis + 5:8771 + 0:0226 + 2:300 - 0:855 340 Taylor 8199 + 2:4623 + 0:0027 + 2:037 - 0:358 341 60 Ophiuchi $\beta$ + 2:9648 + 0:0030 - 0:004 + 1:974 - 0:431 - 0:17 22 342 $\iota^{1}$ Scorpii + 4:1923 + 0:0027 + 2:037 - 0:358 343 3 Sagittarii, Var. 7 + 3:7738 + 0:0048 + 1:764 - 0:549 4:345 86 Herculis $\mu$ + 2:3698 + 0:0025 - 0:024 + 1:604 - 0:346 + 0:75 22 349 64 Ophiuchi $\nu$ + 3:9213 + 0:0037 + 1:031 - 0:571 345 Lacaille 7506 + 3:7453 + 0:0038 + 0:0982 - 0:572 349 64 Ophiuchi $\nu$ + 3:3019 + 0:0036 + 0:0982 - 0:572 349 64 Ophiuchi $\nu$ + 3:3019 + 0:0036	325	64 Herculis a	+ 2.7343	+ 0.0035	- 0.002	+ 4:422	- 0.391	- 0.03	2183
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	326	(Apodis	+ 6.2424	+ 0.0522		+ 4.413	- · 0·890		l l
329 40 Ophiuchi $\xi$ $+ 3.5744$ $+ 0.0073$ $+ 0.017$ $+ 4.030$ $- 0.513$ $+ 0.20$ 21 330 42 Ophiuchi $\theta$ $+ 3.6799$ $+ 0.0080$ $- 0.002$ $+ 3.959$ $- 0.528$ $+ 0.04$ 21 331 $\gamma$ Ares $+ 5.0354$ $+ 0.0235$ $- 0.004$ $+ 3.909$ $- 0.722$ $+ 0.01$ Sto 332 $\beta$ Ares $+ 4.0738$ $+ 0.0225$ $+ 0.002$ $+ 3.906$ $- 0.713$ $+ 0.03$ Sto 333 $\delta$ Ares $+ 5.4068$ $+ 0.0263$ $- 0.009$ $+ 3.483$ $- 0.777$ $+ 0.09$ Sto 334 $\delta$ Ares $+ 4.6316$ $+ 0.0149$ $- 0.005$ $+ 3.281$ $- 0.667$ $+ 0.10$ Sto 335 34 Scorpii $\nu$ $+ 4.0685$ $+ 0.0097$ $- 0.004$ $+ 3.275$ $- 0.587$ $+ 0.03$ 22 337 $\theta$ Scorpii $+ 4.9085$ $+ 0.9090$ $+ 0.909$ $+ 0.90$	327		+ 2 0897	+ 0.0032	- 0.004	+ 4.275	- 0.300		2187
329   40 Ophiuchi &   + 3·5744   + 0·0073   + 0·017   + 4·030   - 0·513   + 0·20   21   330   42 Ophiuchi \( \theta \)   + 3·6799   + 0·0080   - 0·002   + 3·959   - 0·528   + 0·04   21   331   \( \gamma \) Are   + 5·0354   + 0·0235   - 0·004   + 3·909   - 0·722   + 0·01   Str.   332   \( \beta \) Are   + 4·9738   + 0·0225   + 0·002   + 3·906   - 0·713   + 0·03   Str.   333   \( \beta \) Are   + 5·4068   + 0·0263   - 0·009   + 3·483   - 0·777   + 0·09   Str.   334   \( \alpha \) Are   + 4·6316   + 0·0149   - 0·005   + 3·281   - 0·667   + 0·10   Str.   335   34 \) Scorpii \( \pi \)   + 4·0732   + 0·0097   - 0·004   + 3·275   - 0·587   + 0·03   22   337   0 \) Scorpii \( \pi \)   + 4·0685   + 0·0090   - 0·001   + 3·029   - 0·588   + 0·05   22   337   0 \) Scorpii \( \pi \)   + 4·3036   + 0·0100   + 0·001   + 2·750   - 0·623   + 0·02   Str.   338   55 \) Ophiuchi \( \alpha \)   + 5·8771   + 0·0226     + 2·300   - 0·853       340 \) Taylor 8199 \( \pi \)   + 2·4623   + 0·0027     + 2·037   - 0·358       341   60 \) Ophiuchi \( \beta \)   + 4·1923   + 0·0065   - 0·003   + 1·837   - 0·610   - 0·03   Str.   342 \( \pi \) Scorpii \( \pi \)   + 4·1923   + 0·0065   - 0·003   + 1·837   - 0·610   - 0·03   Str.   342 \( \pi \) Scorpii \( \pi \)   + 4·1923   + 0·0065   - 0·003   + 1·837   - 0·610   - 0·03   Str.   343   Sagittarii, \( \pa \)   + 4·0764   + 0·0055     + 1·618   - 0·594         345   Sc Herculis \( \mu \)   + 3·2463   + 0·0037     + 1·604   - 0·346   + 0·75   22   346   Lacaille 7502     + 3·2453   + 0·0036     + 0·986   - 0·546	328	68 Herculis u	+ 2·2148	+ 0.0031	- 0.004	+ 4:102	- 0.318	- 0.01	2194
331 $\gamma$ Aræ + 5·0354 + 0·0235 - 0·004 + 3·909 - 0·722 + 0·01 Stored 322 $\beta$ Aræ + 4·9738 + 0·0225 + 0·002 + 3·906 - 0·713 + 0·03 Stored 333 $\delta$ Aræ + 5·4068 + 0·0263 - 0·009 + 3·483 - 0·777 + 0·09 Stored 334 $\alpha$ Aræ + 4·6316 + 0·0149 - 0·005 + 3·281 - 0·667 + 0·10 Stored 335 34 Scorpii $\nu$ + 4·0685 + 0·0097 - 0·004 + 3·275 - 0·587 + 0·03 22 336 35 Scorpii $\lambda$ + 4·0685 + 0·0100 + 0·001 + 3·029 - 0·588 + 0·05 22 337 0 Scorpii + 4·3036 + 0·0100 + 0·001 + 2·750 - 0·623 + 0·02 Stored 338 55 Ophiuchi $\alpha$ + 2·7749 + 0·0030 + 0·007 + 2·685 - 0·402 + 0·22 22 339 $\gamma$ Pavonis + 5·8771 + 0·0226 + 2·300 - 0·853 340 Taylor 8199 + 2·4623 + 0·0027 + 2·037 - 0·358 341 60 Ophiuchi $\beta$ + 2·9648 + 0·0030 - 0·004 + 1·974 - 0·431 - 0·17 22 342 $\iota$ Scorpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Stored 338 3 Sagittarii, Var. 7 + 3·7738 + 0·0048 + 1·764 - 0·549 343 3 Sagittarii, Var. 7 + 3·7738 + 0·0048 + 1·764 - 0·549 345 86 Horenlis $\mu$ + 2·3698 + 0·0025 + 1·618 - 0·594 346 Lacaille 7502 + 3·9213 + 0·0037 + 1·031 - 0·571 348 Lacaille 7502 + 3·9285 + 0·0036 + 0·086 - 0·546 349 64 Ophiuchi $\nu$ + 3·9213 + 0·0037 + 0·986 - 0·546 349 64 Ophiuchi $\nu$ + 3·9213 + 0·0037 + 0·0678 - 0·0481 + 0·11 22 349 64 Ophiuchi $\nu$ + 3·9213 + 0·0036 + 0·0987 - 0·0678 - 0·0481 + 0·011 22 349 64 Ophiuchi $\nu$ + 3·9213 + 0·0036 + 0·0986 - 0·546	329	40 Ophiuchi §	+ 3.5744	+ 0.0073	+0.017	+ 4.030	- 0.513	+ 0.20	2186
332 $\beta$ Arw + 4.9738 + 0.0225 + 0.002 + 3.906 - 0.713 + 0.03 Std 333 $\delta$ Arw + 5.4068 + 0.0263 - 0.009 + 3.483 - 0.777 + 0.00 Std 334 $\alpha$ Arw + 4.6316 + 0.0149 - 0.005 + 3.281 - 0.667 + 0.10 Std 335 34 Scorpii $\nu$ + 4.0685 + 0.0097 - 0.004 + 3.275 - 0.587 + 0.03 22 337 $\theta$ Scorpii $\lambda$ + 4.0685 + 0.0100 + 0.001 + 2.750 - 0.623 + 0.02 Std 338 55 Ophiuchi $\alpha$ + 2.7749 + 0.0030 + 0.007 + 2.635 - 0.402 + 0.22 22 339 $\eta$ Pavonis + 5.8771 + 0.0226 + 2.300 - 0.853 340 Taylor 8199 + 2.4623 + 0.0027 + 2.037 - 0.358	330	_	+ 3.6799	+ 0.0080	- 0.002	+ 3.959	- 0.528	+ 0.01	2189
338   δ Arw   + 5·4068   + 0·0263   - 0·009   + 3·483   - 0·777   + 0·09   Storement	331	γ Aræ	+ 5.0354	+ 0.0235	- 0.004	+ 3.909	- 0.722	+ 0.01	Stone
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	332	β Arw	+ 4.9738	+ 0.0225	+0.002	+ 3.906	- 0.713	+ 0.03	Stone
335 34 Scorpii ν + 4·0732 + 0·0097 - 0·004 + 3·275 - 0·587 + 0·03 22 336 35 Scorpii λ + 4·0685 + 0·0090 - 0·001 + 3·029 - 0·588 + 0·05 22 337 θ Scorpii + 4·3036 + 0·0100 + 0·001 + 2·750 - 0·623 + 0·02 Storpii + 2·7749 + 0·0030 + 0·007 + 2·685 - 0·402 + 0·22 22 339 η Pavonis + 5·8771 + 0·0226 + 2·300 - 0·853 340 Taylor 8199 + 2·4623 + 0·0027 + 2·037 - 0·358 341 60 Ophiuchi β + 2·9648 + 0·0030 - 0·004 + 1·974 - 0·431 - 0·17 22 342 $\iota^1$ Scorpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Storpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Storpii + 4·0764 + 0·0055 + 1·618 - 0·594 344 Taylor 8229 + 4·0764 + 0·0055 + 1·618 - 0·594 345 86 Herculis μ + 2·3698 + 0·0025 - 0·024 + 1·604 - 0·346 + 0·75 22 346 Lacaille 7404 + 3·9213 + 0·0037 + 1·031 - 0·571 347 Lacaille 7506 + 3·7453 + 0·0036 + 0·986 - 0·546 349 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22 369 64 Ophiuchi ν + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·678 - 0·481 + 0·11 22 369 64 Ophi	333	δ Aræ	+ 5.4068	+ 0.0263	- 0.009	+ 3.483	- 0.777	+ 0.09	Stone
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	334	α Αταο	+ 4.6316	+ 0.0149	- 0.005	+ 3.281	- 0.667	+ 0.10	Stone
337 θ Scorpii + 4·3036 + 0·0100 + 0·001 + 2·750 - 0·623 + 0·02 Storpii 338 55 Ophiuchi a + 2·7749 + 0·0030 + 0·007 + 2·635 - 0·402 + 0·22 22 339 η Pavonis + 5·8771 + 0·0226 + 2·300 - 0·853 340 Taylor 8199 + 2·4623 + 0·0027 + 2·037 - 0·358 341 60 Ophiuchi β + 2·9648 + 0·0030 - 0·004 + 1·974 - 0·431 - 0·17 22 342 ι¹ Scorpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Storpii + 4·1923 + 0·0065 - 0·003 + 1·837 - 0·610 - 0·03 Storpii 343 3 Sagittarii, Var. 7 + 3·7738 + 0·0048 + 1·764 - 0·549 344 Taylor 8229 + 4·0764 + 0·0055 + 1·618 - 0·594 345 86 Herculis μ + 2·3698 + 0·0025 - 0·024 + 1·604 - 0·346 + 0·75 22 346 Lacaille 7494 + 3·9213 + 0·0037 + 1·031 - 0·571 347 Lacaille 7506 + 3·7453 + 0·0033 + 0·986 - 0·546 348 Lacaille 7502 + 3·9285 + 0·0036 + 0·982 - 0·572	335	34 Scorpii v	+ 4.0732	+ 0.0097	- 0.004	+ 3.275	- 0.587	+ 0.03	2205
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	336	35 Scorpii λ	+ 4.0685	+ 0.0090	- 0.001	+ 3.029	- 0.588	+ 0.02	2210
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	337	θ Scorpii	+ 4.3036	+ 0.0100	+ 0.001	+ 2.750	- 0.623	+ 0.02	Stone
340       Taylor 8199       + 2·4623       + 0·0027        + 2·037       - 0·358           341       60 Ophiuchi $\beta$ + 2·9648       + 0·0030       - 0·004       + 1·974       - 0·431       - 0·17       22         342 $\iota^1$ Scorpii        + 4·1923       + 0·0065       - 0·003       + 1·837       - 0·610       - 0·03       Std         343       3 Sagittarii, Var. 7       + 3·7738       + 0·0048        + 1·764       - 0·549           344       Taylor 8229        + 4·0764       + 0·0055        + 1·618       - 0·594           345       86 Herculis $\mu$ + 2·3698       + 0·0025       - 0·024       + 1·604       - 0·346       + 0·75       22         346       Lacaille 7494        + 3·9213       + 0·0037        + 1·031       - 0·571           347       Lacaille 7502        + 3·9285       + 0·0036        + 0·986       - 0·546           349       64 Ophiuchi $\nu$ + 3·3019       + 0·0024       -	338	55 Ophiuchi α	+ 2.7749	+ 0.0030	+ 0.007	+ 2.685	- 0.402	+ 0.22	2218
341       60 Ophiuchi $\beta$ $+$ 2·9648 $+$ 0·0030 $-$ 0·004 $+$ 1·974 $-$ 0·431 $-$ 0·17       22         342 $\iota^1$ Scorpii $+$ 4·1923 $+$ 0·0065 $-$ 0·003 $+$ 1·837 $-$ 0·610 $-$ 0·03       Sto         343       3 Sagittarii, Var. 7 $+$ 3·7738 $+$ 0·0048 $+$ 1·764 $-$ 0·549           344       Taylor 8229 $+$ 4·0764 $+$ 0·0055 $+$ 1·618 $-$ 0·594           345       86 Herculis $\mu$ $+$ 2·3698 $+$ 0·0025 $-$ 0·024 $+$ 1·604 $-$ 0·346 $+$ 0·75       22         346       Lacaille 7494 $+$ 3·9213 $+$ 0·0037 $+$ 1·031 $-$ 0·571          347       Lacaille 7506 $+$ 3·7453 $+$ 0·0033 $+$ 0·986 $-$ 0·546          348       Lacaille 7502 $+$ 3·3019 $+$ 0·0024 $-$ 0·002 $+$ 0·678 $-$ 0·481 $+$ 0·11       22         349       64 Ophiuchi $\nu$	339	η Pavonis	+ 5.8771		•••	+ 2.300	- 0.853	•••	
342 $\iota^{1}$ Scorpii        + $4 \cdot 1923$ + $0 \cdot 0065$ - $0 \cdot 003$ + $1 \cdot 837$ - $0 \cdot 610$ - $0 \cdot 03$ Storman         343       3 Sagittarii, Var. 7       + $3 \cdot 7738$ + $0 \cdot 0048$ + $1 \cdot 764$ - $0 \cdot 549$ 344       Taylor 8229        + $4 \cdot 0764$ + $0 \cdot 0055$ + $1 \cdot 618$ - $0 \cdot 594$ 345       86 Herculis $\mu$ + $2 \cdot 3698$ + $0 \cdot 0025$ - $0 \cdot 024$ + $1 \cdot 604$ - $0 \cdot 346$ + $0 \cdot 75$ 22         346       Lacaille 7494        + $3 \cdot 9213$ + $0 \cdot 0037$ + $1 \cdot 031$ - $0 \cdot 571$ 347       Lacaille 7506        + $3 \cdot 7453$ + $0 \cdot 0033$ + $0 \cdot 986$ - $0 \cdot 546$ 348       Lacaille 7502        + $3 \cdot 9285$ + $0 \cdot 0036$ + $0 \cdot 982$ - $0 \cdot 572$ 349       64 Ophiuchi $\nu$ + $3 \cdot 3019$ + $0 \cdot 0024$ - $0 \cdot 002$ + $0 \cdot 678$ - $0 \cdot 481$ + $0 \cdot 011$	340	Taylor 8199	+ 2.4623	+ 0.0027		+ 2.037	- 0.358	•••	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	341	60 Ophiuchi 🛭	+ 2.9648	+ 0.0030	- 0.004	+ 1.974	- 0.431	- 0.17	2229
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	342	ι¹ Scorpii	+ 4.1923	+ 0.0065	- 0.003		- 0.610	- 0.03	Stone
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	343	3 Sagittarii, Var. 7	+ 3.7738	+ 0.0048		+ 1.764	- 0.549		
346 Lacaille 7494 + 3·9213 + 0·0037 + 1·031 - 0·571	344	Taylor 8229	+ 4.0761			+ 1.618	- 0.594		
347 Lacaille 7506 + 3.7453 + 0.0033 + 0.986 - 0.546 + 3.9285 + 0.0036 + 0.982 - 0.572 349 64 Ophiuchi v + 3.3019 + 0.0024 - 0.002 + 0.678 - 0.481 + 0.11 22	345	86 Herculis μ	+ 2.3698	+ 0.0025	- 0.024	+ 1.604	- 0.346	+ 0.75	2237
348 Lacaille 7502 + 3.9285 + 0.0036 + 0.982 - 0.572 349 64 Ophiuchi v + 3.3019 + 0.0024 - 0.002 + 0.678 - 0.481 + 0.11 22	346	Lacaille 7494	+ 3.9213	+ 0.0037		+ 1.031	- 0.571		
349 64 Ophiuchi » + 3·3019 + 0·0024 - 0·002 + 0·678 - 0·481 + 0·11 22	347	Lacaille 7506	+ 3.7453			+ 0.986	- 0.546	•••	
1 4 6 7 7 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 9 1 1 0 0 0 0	348	Lacaille 7502	→ 3.9285	+ 0.0036		+ 0.982	- 0.572		
1 4.6700 1 0.0000 0.007 1 0.050 0.601 1 0.04 CL	349	64 Ophiuchi v	+ 3.3019	+ 0.0024	- 0.002	+ 0.678	- 0.481	+ 0.11	2250
350 6 Arm + 4.6/09 + 0.0023 - 0.007 + 0.208 - 0.001 + 0.04 Std	350	θ Ατα	+ 4:6709	+ 0.0023	- 0.007	+ 0.258	- 0.681	+ 0.04	Stone



Mean Positions of Stars for 1877, January 1st.

351   10 Sagittarii γ       3·0     h.   m.   e.     r.   .		Number.	Star.	Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Pola	Mean r Dist		Observations.	Fraction of Year.
351   10 Sagittarii 7	1				1	h.	m.	8.				1	
352	1	351	10 Sagittarii γ²	3.0		17		54.28				5	0.48
17-24   353	.	352	D - J -1:00 - 0000		3	17	59	56.23	41			1 1	0.66
355   * Telescopii	17.35	353	Taylor 8376	5.3	5	18	0	17:32.5	118	28		5	0.66
356		354	79 Ombimali	0.0		18	1	• -	80	27		5	0.68
357   13 Sagittarii \( \alpha \)		355	€ Telescopii	4.5	1	18	2	5.89	135	. 58	22.9	1	0.64
357   13 Sagittarii \( \alpha \)   41     18   6   24\cdot 39   111   5   20\cdot 0   12   0\cdot 57     358   \( \text{ sagittarii} \)     30     18   9   18\cdot 21   12\cdot 47   47\cdot 9   5   0\cdot 48     359   23 Urse Minoris \( \text{ s} \)   4\cdot 5     18   12   0\cdot 78   3   23   30\cdot 7   8   0\cdot 23     360   19 Sagittarii \( \text{ s} \)   2\cdot 8     18   13   7\cdot 4   119   52   41\cdot 7   5   0\cdot 49     361   55 Serpentis \( \text{ s} \)     3\cdot 4     18   14   5\cdot 6\cdot 4   92   55   4\cdot 0   5   0\cdot 52     362   20 Sagittarii \( \text{ s} \)     2\cdot 1     18   16   0\cdot 14\cdot 1   124   2\cdot 25\cdot 4   5   0\cdot 55     363   \( \text{ a Telescopii} \)     4\cdot 0   4   18   17   5\cdot 5\cdot 0   3\cdot 3   3\cdot 6   2\cdot 1\cdot 3   3\cdot 6   3\cdot 6       6\cdot 8   5   18   17   5\cdot 0\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   6\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   121   2\cdot 26\cdot 6   3\cdot 6   3\cdot 7   7\cdot 7   3   18   19   5\cdot 0   3\cdot 8   3\cdot 7   3\cdot 8   3\cdot 7   3\cdot 8   3\		356	Lacaille 7577	5.0	2	18	3	59-69	153	5	4.7	2	0.64
358   γ Sagittarii     30     18   9   18-21   126   47   47-9   5   0-48   359   23 Ursæ Minoris δ     4-5     18   12   0-78   3   23   30-7   8   0-23   360   19 Sagittarii δ       2-8     18   13   7-14   119   52   41-7   5   0-49   361   58 Serpentis γ       3-4     18   14   56-64   92   55   46-0   5   0-55   362   20 Sagittarii ε     2-1     18   16   0-18-7   124   26   25-4   5   0-55   363   a Telescopii     4-0   4   18   17   51-00   3   136   2   1:3   5   0-63   364         8-8   5   18   17   55-29   121   49   11-2   5   0-67   365         5-5   2   18   19   6-00   121   26   28-6   3   0-64   367   γ Pavonis       5-5   2   18   19   58-07   152   21   11-2   2   0-68   368   3 Telescopii       5-5   5   18   22   36-69   135   59   41-2   5   0-69   369   37   Telescopii       5-5   5   18   22   36-69   135   50   20-9   5   0-69   370   ⟨ Pavonis       4-5   4   18   28   39-22   161   31   500   5   0-61   371   3 Lyræ α (Vega)       5-5   5   18   32   26-15   154   59   3-6   5   0-65   373   λ Coronæ Australis     5-9   4   18   35   20-56   128   26   22-5   5   0-66   374   6 Pavonis       5-5   5   18   33   22-65-15   12   5-3   4   0-67   375   27 Sagittarii φ     3-3     18   37   58-24   117   6   54-1   5   0-51   15   379   × Pavonis       5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   2   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18   40   49-08   152   19   32-6   5   0-70   378   × Telescopii     5-5   5   18		357		1	l l							1 1	
359 23 Urses Minoris \$ 4.5 18 12 0.78 3 23 30.7 8 0.23 360 19 Sagittarii \$ 2.8 18 13 7.14 119 52 41.7 5 0.49  361 362 363 Serpentis \$ 3.4 18 14 56.64 92 55 46.0 5 0.55 362 362 20 Sagittarii \$ 2.1 18 16 0.187 124 26 25.4 5 0.55 363 a Telescopii 4.0 4 18 17 51.00 3 136 2 1.3 5 0.53 364 88 5 18 17 55.29 121 49 11.2 5 0.67 365 7.7 3 18 19 6.00 121 26 28.6 3 0.64 365 5.5 2 18 19 21.32 139 8 4.4 5 0.63 367 p Pavonis 5.5 2 18 19 53.07 152 21 11.2 2 0.68 368 3 Telescopii 5.5 5 18 22 38.69 135 59 41.2 5 0.69 369 37 Telescopii 4.5 4 18 28 39.22 161 31 50.0 5 0.61 371 3 Lyres \$ (Vega) 0.2 18 32 46.41 51 19 47.4 12 0.62 372 Taylor 85.7 50 5 18 33 22.66.15 154 59 3.6 5 0.65 373 A Coronee Australis 5.9 4 18 35 20.56 128 26 22.5 5 0.66 374 9 Pavonis 5.5 3 4 18 38 31.90 155 12 5.3 4 0.67 375 27 Sagittarii \$ 5.7 2 18 44 15.4 34 16.7 23 2.4 2 0.61 380 10 Lyres \$ 3.7 2 N Pavonis 5.5 18 44 18 42 54.02 142 14 44.3 4 0.67 375 27 Sagittarii \$ 5.0 2 18 44 15.4 34 16.7 23 2.4 2 0.61 380 10 Lyres \$ 3.7 Nar. 1 5.5 3 4 18 44 15.4 34 16.7 23 2.4 2 0.61 380 10 Lyres \$ 3.7 Nar. 1 5.5 3 18 50 25.46 127 15 57.1 5 0.65 381 34 Sagittarii \$ 5.0 2 18 44 15.4 34 16.7 23 2.4 2 0.61 380 10 Lyres \$ 3.7 Nar. 1 5.5 3 18 50 25.46 127 15 57.1 5 0.65 383 13 Aquille \$ 5.0 3 18 54 2.97 6.4 57 5.5 50.8 5 0.50 44 14 14 14.0 15 5 0.55 12 3.0 14 14 Lyres \$ 1 5.5 5 3 18 54 2.97 6.4 57 5.5 50.8 5 0.50 44 14 14 14.0 16.7 5.5 50.8 11 14.1 11 14.1 18 54 2.7 7.5 5 50.8 5 0.50 44 14 14.1 11 18 54 2.7 7.5 5 50.8 5 0.50 44 14.1 14.1 14.1 15 14.1 14.1 15 14.1 14.1	ľ	358	η Sagittarii	3.0	l	18	9		126	47		1 1	
361 58 Serpentis \( \pi \) 3.4 18 14 56.84 92 55 46.0 5 0.52   362 20 Sagittarii \( \cdot \) 4.6 4 18 17 51.00 3 13.6 2 1.3 5 0.53   363 363 363 88 5 18 17 55.29 121 49 11.2 5 0.63   364 88 5 18 17 55.29 121 49 11.2 5 0.63   365 4.8 5 18 19 21.32 1 13.9 8 4.4 5 0.63   367 368 367 367 3 18 19 6.00 121 26 28.6 3 0.64   368 367 367 368 3 1 Telescopii 5.5 2 18 19 53.07 15.2 21 11.2 2 0.68   369 369 3 1 Telescopii 5.5 5 18 22 38.69 13.5 59 41.2 5 0.69   370 \( \choose Pavonis 5.5 5 18 22 56.09 13.5 50 20.9 5 0.60   370 \( \choose \text{Pavonis 4.5 4 18 28 39.22 161 31 500 5 0.61   371 \( \text{Taylor 8577 5.0 5 18 33 22.96 15 15 4 59 3.6 6 0.65   374 \( \text{Pavonis		359	23 Ursæ Minoris 8	4.5		18	12	0.78	3	23	30.7	8	0.23
362 20 Sagittarii ε 2°1 18 16 0°16°1 124 26 25°4 5 0°55 36°3 36°4 88 5 18 17 55°29 121 49 11°2 5 0°67 36°5 88 5 18 17 55°29 121 49 11°2 5 0°67 36°5 5°5 2 18 19 21°32 13°8 44 5 0°63 36°6 12°8 26 28°6 3 0°64 12°8 26°8 27°6 27°6 27°6 27°6 27°6 27°6 27°6 27°6		360	19 Sagittarii δ	2.8		18	13		119	52	-	1 1	0.49
5/*01 362 5/*01 363 364 365 366 366 366 367 366 367 368 367 368 367 368 367 37 4 368 369 37 4 369 37 4 369 37 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		361	58 Serpentis η	3.4		18	14	56.64	92	55	46·0	5	0.52
364   88   5   18   17   55-29   121   49   11-2   5   0-67     365	0.19	362	20 Sagittarii e	2.1		18	16	0·1 <del>8·1</del>	124	26	25.4		
364     8*8   5   18   17   55*29   121   49   11*2   5   0*67     365     7*7   3   18   19   6*00   121   26   28*6   3   0*64     366   \$\times\$ \tau \text{Payonis} \tau	51.03	363	a Telescopii	4.0	4	18	17	51.003	136	2	1.3	5	0.23
366   (Telescopii 4'8   5   18   19   21:32   139   8   4'4   5   0'63   367   ν Pavonis 5'5   2   18   19   53:07   152   21   11:2   2   0'68   368   3¹ Telescopii 5'5   5   18   22   38:69   135   59   41:2   5   0'69   369   3² Telescopii 5'5   5   18   22   56:09   135   50   20:9   5   0'69   370   (Pavonis 4'5   4   18   28   39:22   161   31   50:0   5   0'61   371   3 Lyræ α (Veya) 5'0   5   18   32   46:41   51   19   47:4   12   0'62   372   Taylor 8577 5'0   5   18   33   22:96   15   154   59   3'6   5   0'65   373   λ Coronæ Australis 5'9   4   18   35   20:56   128   26   22:5   5   0'66   6   Pavonis 5'3   4   18   36   31:90   155   12   5'3   4   0'67   375   27 Sagittarii φ 3'3     18   37   58:24   117   6   54:1   5   0'51   376   λ Pavonis 5'2   5   18   40   49:08   152   19   32:6   5   0'70   378   κ Telescopii 5'8   4   18   42   54:02   142   14   44:3   4   0'70   379   κ Pavonis 5'0   2   18   44   15:14:34   167   23   2'4   2   0'61   380   10 Lyræ β¹, Var. 1   Var   18   45   32:29   56   46   44:7   11   0'65   383   34 Aquilæ ε 4'1   18   54   2:37   75   5   50:8   5   0'50   385   38 Sagittarii σ 3'3   18   54   2:76   57   28   41:4   5   0'54   385   38 Sagittarii σ 3'3   18   54   2:76   57   28   41:4   5   0'54   385   38 Sagittarii σ	1	364	•••	. 8.8	5	18	17		121	49	11.2	5	0.67
367	1	365	*** * *** *** ***	. 7.7	3	18	19	6.00	121	26	28.6	3	0.64
367   Pavonis	21.35	366	⟨Telescopii	4.8	5	18	19	21.325	139	8	4.4	5	0.63
368   δ1 Telescopii       5·2   5   18   22   38·69   135   59   41·2   5   0·69   369   δ2 Telescopii       5·5   5   18   22   56·09   135   50   20·9   5   0·69   370   ⟨Pavonis       4·5   4   18   28   39·22   161   31   50·0   5   0·61   371   3 Lyræ α (Vega)     0·2     18   32   46·41   51   19   47·4   12   0·62   372   Taylor 8577     5·0   5   18   33   22·96·15   154   59   3·6   5   0·65   373   λ Coronæ Australis     5·9   4   18   35   20·56   128   26   22·5   5   0·66   374   θ Pavonis     5·3   4   18   36   31·90   155   12   5·3   4   0·67   375   27 Sagittarii φ       3·3     18   37   58·24   117   6   54·1   5   0·51   376   T Aquilæ, Var. 3   9·7   9   18   39   50·57   81   23   8·3   10   0·54   377   λ Pavonis     5·2   5   18   40   49·08   152   19   32·6   5   0·70   378   κ Telescopii       5·8   4   18   42   54·02   142   14   44·3   4   0·70   379   κ Pavonis     5·0   2   18   44   15·14·34   157   23   2·4   2   0·61   380   10 Lyræ β¹, Var. 1     Var.     18   45   32·29   56   46   44·7   11   0·65   381   34 Sagittarii σ     2·3     18   47   38·24   116   26   50·0   5   0·49   382   c Coronæ Aust., Var. 1     5·5   3   18   50   25·46   127   15   57·1   5   0·65   383   13 Aquilæ ε       4·1     18   54   2·37   7·5   5   50·8   5   0·50   385   38 Sagittarii σ         3·3     18   54   2·37   7·5   5   50·8   5   0·50   385   38 Sagittarii σ         3·3     18   54   2·0·70·6   57   28   41·4   5   0·54   385   38 Sagittarii σ         3·3     18   54   2·0·70·6   57   28   41·4   5   0·54   385   38 Sagittarii σ         3·3     18   54   2·0·70·6   57   28   41·4   5   0·54   385   38 Sagittarii σ         3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3     3·3   .		367	ν Pavonis	. 5.5	2	18	19		l			1	-
369   δ* Telescopii       5·5   5   18   22   56·09   135   50   20·9   5   0·69   370   (Pavonis       4·5   4   18   28   39·22   161   31   50·0   5   0·61   371   3 Lyræ α (Vega)     0·2     18   32   46·41   51   19   47·4   12   0·62   372   Taylor 8577       5·0   5   18   33   22·95·15   154   59   3·6   5   0·65   373   λ Coronæ Australis     5·9   4   18   35   20·56   128   26   22·5   5   0·66   374   6 Pavonis     5·3   4   18   36   31·90   155   12   5·3   4   0·67   375   27 Sagittarii φ       3·3     18   37   58·24   117   6   54·1   5   0·51   376   T Aquilæ, Var. 3   9·7   9   18   39   50·57   81   23   8·3   10   0·54   377   λ Pavonis     5·2   5   18   40   49·08   152   19   32·6   5   0·70   378   κ Telescopii       5·8   4   18   42   54·02   142   14   44·3   4   0·70   379   κ Pavonis     5·0   2   18   44   15·14·34   157   23   2·4   2   0·61   380   10 Lyræ β¹, Var. 1     Var.     18   45   32·29   56   46   44·7   11   0·65   381   34 Sagittarii σ       2·3     18   47   38·24   116   26   50·0   5   0·49   382   ε Coronæ Aust., Var. 1     5·5   3   18   50   25·46   127   15   57·1   5   50·65   384   14 Lyræ γ       4·1     18   54   2·37   7·5   5   50·8   5   0·50   20·49   385   38 Sagittarii σ       3·3     18   54   2·0·70·6   57   28   41·4   5   0·54   385   38 Sagittarii σ       3·3     18   54   2·0·70·6   57   28   41·4   5   0·54   385   38 Sagittarii σ       3·3		368	δ¹ Telescopii	. 5.2	5	18	22		ŀ	59	-	1 1	
370   ζ Pavonis   4·5   4   18 28 39·22   161 31 50·0   5   0·61     371   3 Lyræ α (Vega)   0·2     18 32 46·41   51 19 47·4   12 0·62     372   Taylor 8577   5·0   5   18 33 22·96·15   154 59 3·6   5 0·65     373   λ Coronæ Australis   5·9   4   18 35 20·56   128 26 22·5   5 0·66     374   θ Pavonis   5·3   4   18 36 31·90   155 12 5·3   4 0·67     375   27 Sagittarii φ   3·3     18 37 58·24   117 6 54·1   5 0·51     376   T Aquilæ, Var. 3   9·7   9   18 39 50·57   81 23 8·3   10 0·54     377   λ Pavonis   5·2   5   18 40 49·08   152 19 32·6   5 0·70     378   κ Telescopii   5·8   4   18 42 54·02   142 14 44·3   4 0·70     379   κ Pavonis   5·0   2   18 44 15·14·34   157 23 2·4   2 0·61     380   10 Lyræ β¹, Var. 1   Var   18 45 32·29   56 46 44·7   11 0·65     381   34 Sagittarii σ   2·3     18 47 38·24   116 26 50·0   5 0·49     382   ε Coronæ Aust., Var. 1   5·5   3 18 50 25·46   127 15 57·1   5 0·65     383   38 Aquilæ ε   4·1     18 54 2·37   75 5 50·8   5 0·50     384   14 Lyræ γ     3·3     18 54 2·76·6   57 28 41·4   5 0·54     385   38 Sagittarii ζ   3·3     18 54 2·76·6   57 28 41·4   5 0·54     385   38 Sagittarii ζ   3·3     18 54 2·76·6   57 28 41·4   5 0·54     385   38 Sagittarii ζ   3·3     18 54 2·76·6   57 28 41·4   5 0·54     385   38 Sagittarii ζ     3·3     18 54 2·76·6   57 28 41·4   5 0·54     385   38 Sagittarii ζ       3·3	ļ	369	δ <sup>2</sup> Telescopii	. 5.5	5	18	22	56.09	135	50		1 1	
22·15 372 Taylor 8577 5·0 5 18 33 22·96·15 154 59 3·6 5 0·65 373 λ Coronæ Australis 5·9 4 18 35 20·56 128 26 22·5 5 0·66 374 θ Pavonis 5·3 4 18 36 31·90 155 12 5·3 4 0·67 375 27 Sagittarii φ 9·7 9 18 39 50·57 81 23 8·3 10 0·54 377 λ Pavonis 5·2 5 18 40 49·08 152 19 32·6 5 0·70 378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræ β¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65 381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ε Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ε 4·1 18 54 2·37 7·5 5 50·8 5 0·50 384 14 Lyræ γ 3·3 18 54 2·70·64 57 28 41·4 5 0·54		370	CPavonis	4.5	4	18	28	39.22	161	31		1 1	
22·16 372 Taylor 8577 5·0 5 18 33 22·96·15 154 59 3·6 5 0·65 373 λ Coronæ Australis 5·9 4 18 35 20·56 128 26 22·5 5 0·66 374 θ Pavonis 5·3 4 18 36 31·90 155 12 5·3 4 0·67 375 27 Sagittarii φ 9·7 9 18 39 50·57 81 23 8·3 10 0·54 377 λ Pavonis 5·2 5 18 40 49·08 152 19 32·6 5 0·70 378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræ β¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65 381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ε Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ε 4·1 18 54 2·37 7·5 5 50·8 5 0·50 384 14 Lyræ γ 3·3 18 54 2·70·64 57 28 41·4 5 0·54		371	3 Lyræ a (Vega)	. 0.2		18	32	46:41	51	19	47.4	12	0.65
373 λ Coronæ Australis 5·9 4 18 35 20·56 128 26 22·5 5 0·66 374 θ Pavonis 5·3 4 18 36 31·90 155 12 5·3 4 0·67 375 27 Sagittarii φ 9·7 9 18 39 50·57 81 23 8·3 10 0·54 377 λ Pavonis 5·2 5 18 40 49·08 152 19 32·6 5 0·70 378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræ β¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65 381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ε Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ε 4·1 18 54 2·37 75 5 50·8 5 0·50 385 38 Sagittarii σ 3·3 18 54 2·70·64 57 28 41·4 5 0·54	22.15	372	Manian OSHA	1	1	1			l			1 1	
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377 λ Pavonis 5·2 5 18 40 49·08 152 19 32·6 5 0·70 378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræ β¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65  381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ε Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ε 4·1 18 54 2·37 75 5 50·8 5 0·50 384 14 Lyræ γ 3·3 18 54 2·70·6 5 57 28 41·4 5 0·54		375	27 Sagittarii φ	. 3.3		18	37	58.24	1			1 1	· · · ·
377 λ Pavonis 5·2 5 18 40 49·08 152 19 32·6 5 0·70 378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræ β¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65  381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ϵ Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ϵ 4·1 18 54 2·37 75 5 50·8 5 0·50 384 14 Lyræ γ 3·3 18 54 2·70·6 5 57 28 41·4 5 0·54		376	T Aquilæ, Var. 3	9.7	9	18	39	50.57	91	-09	0.0	,,	0.54
378 κ Telescopii 5·8 4 18 42 54·02 142 14 44·3 4 0·70 379 κ Pavonis 5·0 2 18 44 15·14·34 157 23 2·4 2 0·61 380 10 Lyræβ¹, Var. 1 Var 18 45 32·29 56 46 44·7 11 0·65  381 34 Sagittarii σ 2·3 18 47 38·24 116 26 50·0 5 0·49 382 ε Coronæ Aust., Var. 1 5·5 3 18 50 25·46 127 15 57·1 5 0·65 383 13 Aquilæ ε 4·1 18 54 2·37 75 5 50·8 5 0·50 384 14 Lyræγ 3·3 18 54 2·70·6 57 28 41·4 5 0·54		377	) Payonic		1	1			ì			1 1	
379   κ Pavonis   5.0   2   18   44   15   14   34   157   23   2.4   2   0.61     380   10 Lyræ β¹, Var. 1     Var.     18   45   32   29   56   46   44   7   11   0.65     381   34 Sagittarii σ       2.3     18   47   38   24   116   26   50   0   5   0.49     382   ε Coronæ Aust., Var. 1     5.5   3   18   50   25   46   127   15   57   1   5   0.65     383   13 Aquilæ ε       4.1     18   54   2.37   75   5   50   8   5   0.50     384   14 Lyræ γ       3.3     18   54   20   70   64   57   28   41   4   5   0.54     385   38 Sagittarii ζ       3.3     18   54   20   70   64   57   28   41   4   5   0.54     385   38 Sagittarii ζ       3.3     3.5   3.		378	r Tologoppii	F.0	1	1		-	ł	-		-	
380 10 Lyres \$\text{\text{\$\beta\$}}^1\$, Var. 1 Var 18 45 32.29 56 46 44.7 11 0.65  381 34 Sagittarii \$\sigma\$ 2.3 18 47 38.24 116 26 50.0 5 0.49  382 \$\inplie\$ Coronæ Aust., Var. 1 5.5 3 18 50 25.46 127 15 57.1 5 0.65  383 13 Aquilæ \$\inplie\$ 4.1 18 54 2.37 75 5 50.8 5 0.50  384 14 Lyræ \$\gamma\$ 3.3 18 54 20.76.4 57 28 41.4 5 0.54	15.24	379	r Pavania	F.0	2	1							
381 34 Sagittarii \( \sigma \) 2.3 18 47 38.24 116 26 50.0 5 0.49 382 \( \epsilon \) Coronæ Aust., Var. 1 5.5 3 18 50 25.46 127 15 57.1 5 0.65 383 13 Aquilæ \( \epsilon \) 4.1 18 54 2.37 75 5 50.8 5 0.50 384 14 Lyræ \( \gamma \) 3.3 18 54 20.76.4 57 28 41.4 5 0.54 385 38 Sogittorii \( \epsilon \)		380		i i	1	1			1				
382 & Coronæ Aust., Var. 1 5.5 3 18 50 25.46 127 15 57.1 5 0.65 383 18 Aquilæ & 4.1 18 54 2.37 75 5 50.8 5 0.50 384 14 Lyræ y 3.3 18 54 20.7664 57 28 41.4 5 0.54		381	34 Sagittarii σ	2.2		10	1.77	10,09	110	00			
383 13 Aquilæ 6 4·1 18 54 2·37 75 5 50·8 5 0·50 384 14 Lyræ y 3·3 18 54 20·70·64 57 28 41·4 5 0·54		1			ı	1 .			1			1	
20-44 384 14 Lyrse y 3.3 18 54 20.7664 57 28 41.4 5 0.54		383	19 Aunille	1	1	·			1			1	
385 38 Societarii (	20.69	384	14 T		t	1			1			1	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		385	90 Conittonii F	1	1	1		•	1			1 500	
		<u></u>			1	<u> </u>		. 10	120		T-4.T	P	บ.อุฐ

364-365.—Comparison stars for Diana in 1864.

er.			In Ri	ght	Ascensi	on.			In F	olar	Distanc	oe.	ity.
Number.	Star.		Annual Precession.		ecular riation.		roper otion.		nual ession.		cular riation.	Proper Motion.	Authority.
		1	8		s		s		"		,,	"	
351	10 Sagittarii $\gamma^3$		+ 3.8573	+	0.0020	_	0.002	+	0.183	-	0.563	+ 0.21	2266
352	Radcliffe 3828		+ 1.2633	+	0.0025			+	0.006	-	0.228	•••	
353	•		+ 3.7972	+	0.0016			-	0.022		0.554	•••	
354	72 Ophiuchi		+ 2.8473	+	0.0019	-	0.006	-	0.132	-	0.412	- 0.09	2275
355	€ Telescopii		+ 4.4553	+	0.0007		•••	-	0.184	-	0.620	•••	
356	Lacaille 7577		+ 5.7054	_	0.0021			_	0.350	_	0.832		
357	100		+ 3.5876	+	0.0000	_	0.001	_	0.560	-	0.523	- 0.00	2284
358	a		+ 4.0714	_	0.0005	_	0.016	-	0.814	_	0.593	+ 0.18	Stone
359			<b>- 1</b> 9·4531	_	0.3499	+	0.026	_	1.051	+	2.838	- 0.04	2395
360	700 111		+ 3.8390	_	0.0006	+	0.001	_	1.147	-	0.559	+ 0.03	2294
	<del>"</del>			١.				l					
361	58 Serpentis η	•••	+ 3.1405	+	0.0010	-	0.040	-	1.307	-	0.456	+068	2298
362	_		+ 3.9868	-	0.0010	_	0.004	-	1.400	-	0.579	+ 0.15	2297
363	α Telescopii		- <del> </del> - 4·4541	-	0.0043	-	0.014	-	1.260	-	0.647	+ 0.07	Stone
364	•••		+ 3.8093	-	0.0017			-	1.566	-	0.266		
365	••• •••	•••	+ 3.8868	-	0.0019		•••	_	1.65\$	-	0.564		
366	ζ Telescopii		+ 4.6120	·-	0.0057	_	0.015	-	1.692	-	0.669	+ 0.23	Stone
367	ν Pavonis	•••	+ 5.6148	-	0.0133		•••	-	1.738	-	0.812		
368	δ¹ Telescopii		+ 4.4497	-	0.0057	_	0.002	-	1.081	-	0.645	+ 0.00	Stome
369	δ <sup>2</sup> Telescopii		+ 4-4420	-	0.0057	_	0.003	-	2.003	-	0.642	+ 0.02	Stone
370	( Pavonis	•••	+ 7.0437	-	0.0415		0.004	-	2.501	-	1.010	+ 0.13	Stone
371	3 Lyrω α		+ 2.0132	+	0.0016	+	0.017	_	2.858	_	0.290	- 0.30	2341
372	Taylor 8577	•••	+ 5.9070		0.0275		•••	_	2.909	_	0.856		
373	λ Coronæ Australis		+ 4:1208	—	0.0067			-	3.081	_	0.293		
374	θ Pavonis		+ 5.9292	_	0.0302	_	0.007	_	3.183	_	0.823	+ 0.04	Stone
375	27 Sagittarii φ	•••	+ 3.7474	-	0.0042	+	0.001	-	3.307	-	0.538	+ 0.02	2344
376	T Aquilæ, Var. 3		+ 2:8727	+	0.0004			_	3.469		0.414		
377	λ Pavonis	•••	+ 5.5812	Τ.	0.0280		0.008		3.553	-	0.800	+ 0.04	Stone
378	κ Telescopii	•••	+ 4.7685	_	0.0162	_			3.732		0.680	,	
379	κ Pavonis	•••	+ 6.2218		0.0437	_	0.011		3.848	_	0.889	- 0.10	Stone
380	10 Lyrm <b>\beta</b> <sup>1</sup>		+ 2.2139	+	0.0012	_	0.001	_	3.058	_	0.312	- 0.02	2369
"00	20 25 20 20	•••	1 2200		0 0010				5 1/00		ODIO		
381	34 Sagittarii σ		+ 3.7229	-	0.0054	-	0.001	-	4.138	-	0.259	+ 0.07	2365
382	€ Coronæ Australis		+ 4.0649	-	0.0094			-	4.377	-	0.577		
383	_		+ 2.7263	+	0.0004	-	0.002	-	4.685	-	0.382	+ 0.08	2390
384	14 Lyræ γ		+ 2.2436	+	0.0014	-	0.002	-	4.711	-	0.316	- 0.01	2392
385	38 Sagittarii (		+ 3.8237	-	0.0075	-	0.004	-	4-748	-	0.540	- 0.01	2384

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.		Magnitude.	Estimations	Righ	Mean t Asce	ension.	Polar	Mean Dista	nce.	Observations.	Fraction of Year.
						h.	m.	s.	•	,	"	1	
	386	R. P. L. 131		6-5		18	54	54.44	3	<b>26</b>	56.3	2	0.38
- 11	387	$\gamma$ Coronæ Australis		5.0	5	18	58	6.02	127	14	15.5	5	0.65
-46	388	40 Sagittarii τ	•••	3.2		18	59	15.45	117	50	53·5	5	0.22
18	389	16 Aquilæ λ	•••	3.6		18	59	43.176	95	3	55·O	5	0.65
∥	390	17 Aquilæ 🕻	•••	3.1		18	59	45.36	76	19	4.9	5	0.65
	391	δ Coronæ Australis		5-1	5	18	59	46-97	130	41	7:3	5	0.71
,	392	a Coronæ Australis		4-6	5	19	1	6.031	128	5	37.7	5	0.55
`	393	20 Aquilæ		5-3		19	6	0.43	98	8	35·O	5	0.65
	394	25 Aquilæ ω		5-1	1	19	12	2.51	78	37	29.4	7	0.63
I	395	S Sagittarii, Var. 2		10.3	2	19	12	14·19	109	14	46.8	2	0.43
.78	396	57 Draconis δ		3.2		19	12	31.82	22	33	16.0	5	0.53
1.41	397	β' Sagittarii	1	8.2	5	19	13	47.39.41	134	41	16.3	5	0.57
`	398	1 Судпі к	1	3.9	1	19	14	15.44	36	51	27.2	2	0.72
1	399	8º Sagittarii		4.3	5	19	14	19.79	135	1	44.8	5	0-66
	400	46 Sagittarii v		4.7		19	14	41.11	106	11	2.6	5	0.66
	401	α Sagittarii	•••	4.0	4	19	15	21.69	130	50	43.0	4	0.69
	402	Taylor 8907—2nd		6.0	4	19	17	54:84	144	34	5.0	4	0.67
	403	30 Aquilæ δ	•••	3.5		19	19	17.72	87	7	44.1	6	0.67
	404	μ Telescopii		4.8	4	19	20	<b>35</b> ·39	145	21	34.5	5	0.70
5.72	405	6 Vulpeculæ α		4.7		19	23	35·37 s	65	34	<b>5</b> 9·3	5	0.66
5.92	406	6 Cygni β—1st		3.1		19	25	45.932	62	17	49.8	5	0.57
	407	6 Cygni 8-2nd		5.2		19	25	47.78	62	17	32.0	6	0.61
.64	408	38 Aquilæ $\mu$		4.7		19	28	4.664	82	<b>52</b>	49.6	5	0.64
•	409	52 Sagittarii ha		4.6		19	29	13.23	115	9	11.6	3	0.65
	410	39 Aquilæ к		4.9		19	30	16:38	97	17	57.0	5	0.65
	411	41 Aquilæ		4:3		. 19	30	21:31	91	33	26.5	5	0.70
3-41	412	Radcliffe 4400 .	•	100	5	19	33	33.43 1	40	3	5.2	5	0.66
1.03	413	12 Cygni φ .		4.6		19	34	31.043	60	7	45.3	5	0.76
	414	E Classithan		4.3		19	34	35.91	72	16	4.1	5	0.66
8. <del>8</del> 7	415	ν Telescopii .		5.7	5	19	37		146	39	21.4	. 5	0.67
14·29	416	Lacaille 8195		5.5	3	19	38	14.24	155	54	12.3	3	0.76
	417	1 50 A 17		0.0		19	9 40		79	41	5.8	4	0.65
7.72	418	10.0		0.0		19	9 43	ı 7.58€	4.5	10	6.2	5	0.59
	419			0.1	5	1.	9 47	49.88	128	3	59.7	5	0.70
	420	* C *		0.77		1 1	9 41	L 54·17	71	46	5.1	5	0.67

387	Star.  3. P. L. 131  7 Coronæ Australis  10 Sagittarii τ  16 Aquilæ ζ  17 Aquilæ ζ  18 Coronæ Australis  20 Aquilæ  25 Aquilæ ω  25 Aquilæ ω  26 Sagittarii  17 Oraconis δ  18 Sagittarii  18 Sagittarii  18 Sagittarii  28 Sagittarii  28 Sagittarii		Annual Precession.  \$ - 18.4778 + 4.0559 + 3.7550 + 3.1868 + 2.7578 + 4.1826 + 4.0832 + 3.2556 + 2.8165 + 3.5160 + 4.3267 + 1.3806 + 4.3408 + 3.4309	Secular Variation  s - 1.5222 - 0.0112 - 0.007 - 0.0022 + 0.0003 - 0.012 - 0.003 - 0.006 - 0.022 - 0.019 - 0.002 - 0.019 - 0.005	8 + 0.004 - 0.007 - 0.003 + 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	Annual Precession.  " 4'756 - 5.029 - 5.128 - 5.167 - 5.170 - 5.172 - 5.283 - 5.696 - 6.201 - 6.217 - 6.346 - 6.385 - 6.391	Secular   Variation.	Proper Motion.  " + 0·29 + 0·26 + 0·08 + 0·09 + 0·07 + 0·11 - 0·03 0·08 + 0·02 - 0·11	Stone 2397 2401 2405 Stone 2415 2432 2449 Stone 2447
387	y Coronæ Australis 40 Sagittarii τ 16 Aquilæ λ 17 Aquilæ ζ 5 Coronæ Australis 20 Aquilæ 25 Aquilæ ω 25 Aquilæ ω 25 Aquilæ ω 26 Draconis δ 61 Sagittarii 1 Cygni κ 28 Sagittarii 46 Sagittarii υ		- 18·4778 + 4·0559 + 3·7550 + 3·1868 + 2·7578 + 4·1826 + 4·0832 + 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 1.5224 - 0.0113 - 0.007 - 0.002 + 0.0003 - 0.012 - 0.003 - 0.000 - 0.006 - 0.022 - 0.019 - 0.002 - 0.002 - 0.019	 + 0.004 - 0.007 - 0.004 - 0.003 + 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 4.756 - 5.029 - 5.128 - 5.167 - 5.170 - 5.172 - 5.283 - 5.696 - 6.201 - 6.217 - 6.241 - 6.346 - 6.385	+ 2·619 - 0·571 - 0·527 - 0·447 - 0·387 - 0·588 - 0·573 - 0·453 - 0·388 - 0·485 + 0·001 - 0·188 + 0·597	+ 0·29 + 0·26 + 0·08 + 0·09 + 0·01 - 0·01 - 0·03 0·08 + 0·02 - 0·11	Stone 2397 2401 2405 Stone Stone 2415 2432 2449 Stone 2447
387	y Coronæ Australis 40 Sagittarii τ 16 Aquilæ λ 17 Aquilæ ζ 5 Coronæ Australis 20 Aquilæ 25 Aquilæ ω 25 Aquilæ ω 25 Aquilæ ω 26 Draconis δ 61 Sagittarii 1 Cygni κ 28 Sagittarii 46 Sagittarii υ		+ 4·0559 + 3·7550 + 3·1868 + 2·7578 + 4·1826 + 4·0832 + 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.0113 - 0.0074 - 0.0002 + 0.0003 - 0.0124 - 0.0003 - 0.0006 - 0.0222 - 0.019 - 0.002 - 0.0019	+ 0.004 - 0.007 - 0.004 - 0.003 + 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 5.029 - 5.128 - 5.167 - 5.170 - 5.172 - 5.283 - 5.696 - 6.201 - 6.217 - 6.241 - 6.346 - 6.385	- 0.571 - 0.527 - 0.447 - 0.387 - 0.588 - 0.573 - 0.453 - 0.388 - 0.485 + 0.001 - 0.596 - 0.188 + 0.597	+ 0·29 + 0·26 + 0·08 + 0·09 + 0·07 + 0·11 - 0·01 - 0·03  - 0·08 + 0·02 - 0·11	Stone 2397 2401 2405 Stone Stone 2415 2432 2449 Stone 2447
388 4 389 1 390 1 391 8 392 2 393 2 394 2 395 8 396 5 397 6 398 1 309 6 400 4 401 2 402 1 403 3 404 405 6	10 Sagittarii τ 16 Aquilæ λ 17 Aquilæ ζ 18 Coronæ Australis 20 Aquilæ 25 Aquilæ ω 25 Aquilæ ω 26 Sagittarii 27 Draconis δ 28 Sagittarii 29 Sagittarii 20 Sagittarii 21 Cygni κ 22 Sagittarii		+ 3.7550 + 3.1868 + 2.7578 + 4.1826 + 4.0832 + 3.2556 + 2.8165 + 3.5160 + 0.0130 + 4.3267 + 1.3806 + 4.3408	- 0.007/ - 0.002/ + 0.0003/ - 0.012/ - 0.003/ - 0.006/ - 0.022/ - 0.019/ - 0.002/ - 0.002/ - 0.019/ - 0.019/	- 0.007 - 0.004 - 0.003 + 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 5·128 - 5·167 - 5·170 - 5·172 - 5·283 - 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.527 - 0.447 - 0.387 - 0.588 - 0.573 - 0.453 - 0.388 - 0.485 + 0.001 - 0.188 + 0.596 - 0.188 + 0.597	+ 0·26 + 0·08 + 0·09 + 0·07 + 0·11 - 0·01 - 0·03  - 0·08 + 0·02 - 0·11	2397 2401 2405 Stone Stone 2415 2432  2449 Stone 2447
389 1 390 1 391 5 392 2 393 2 394 2 395 8 396 5 397 6 398 1 399 6 400 4 401 2 402 1 403 3 404 4 405 6	16 Aquilæ \( \lambda \) 17 Aquilæ \( \lambda \) 18 Coronæ Australis 28 Coronæ Australis 29 Aquilæ \( \lambda \) 25 Aquilæ \( \lambda \) 25 Aquilæ \( \lambda \) 25 Aquilæ \( \lambda \) 26 Praconis \( \delta \) 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		+ 3·1868 + 2·7578 + 4·1826 + 4·0832 + 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.002 + 0.0003 - 0.013 - 0.012 - 0.003 - 0.006 - 0.022 - 0.019 - 0.002 - 0.019	- 0.004 - 0.003 + 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 5·167 - 5·170 - 5·172 - 5·283 - 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.447 - 0.387 - 0.588 - 0.573 - 0.453 - 0.388 - 0.485 + 0.001 - 0.188 + 0.597	+ 0.08 + 0.09 + 0.07 + 0.11 - 0.01 - 0.03  - 0.08 + 0.02 - 0.11	2401 2405 Stone Stone 2415 2432  2440 Stone 2447
390 1 391 5 392 2 393 2 394 2 395 8 396 5 397 6 398 1 399 6 400 4 401 2 402 1 403 3 404 405 6	17 Aquilæ ζ  5 Coronæ Australis  20 Aquilæ  25 Aquilæ ω  S Sagittarii  57 Draconis δ  8¹ Sagittarii  1 Cygni κ  8² Sagittarii  46 Sagittarii υ		+ 2.7578 + 4.1826 + 4.0832 + 3.2556 + 2.8165 + 3.5160 + 0.0130 + 4.3267 + 1.3806 + 4.3408	+ 0.0003 - 0.013 - 0.012 - 0.003 - 0.006 - 0.022 - 0.019 - 0.002 - 0.002	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	- 5·170 - 5·172 - 5·283 - 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.387 - 0.588 - 0.573 - 0.453 - 0.388 - 0.485 - 0.001 - 0.596 - 0.188 + 0.597	+ 0·09 + 0·07 + 0·11 - 0·01 - 0·03  - 0·08 + 0·02 - 0·11	2405 Stone Stone 2415 2432 2440 Stone 2447
391 8 392 2 393 2 394 2 395 S 396 5 397 6 400 4 401 2 403 3 404 405 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 Coronæ Australis 2 Coronæ Australis 20 Aquilæ 25 Aquilæ ω S Sagittarii 57 Draconis δ 8¹ Sagittarii 1 Cygni κ 8² Sagittarii 26 Sagittarii υ		+ 4·1826 + 4·0832 + 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.013; - 0.012; - 0.003; - 0.006; - 0.022; - 0.019; - 0.002; - 0.002; - 0.019;	+ 0.002 + 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 5·172 - 5·283 - 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.588 - 0.573 - 0.453 - 0.388 - 0.485 + 0.001 - 0.596 - 0.188 + 0.597	+ 0·07 + 0·11 - 0·01 - 0·03  - 0·08 + 0·02 - 0·11	Stone Stone 2415 2432  2440 Stone 2447
392	z Coronæ Australis 20 Aquilæ 25 Aquilæ ω S Sagittarii 57 Draconis δ 81 Sagittarii 1 Cygni κ 82 Sagittarii 46 Sagittarii υ		+ 4·0832 + 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0·012/ - 0·003 - 0·000 - 0·006 - 0·022 - 0·019 - 0·002 - 0·019	+ 0.007 - 0.002 - 0.001  + 0.016 - 0.003 + 0.007 	- 5·283 - 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.573 - 0.453 - 0.388 - 0.485 + 0.001 - 0.596 - 0.188 + 0.597	+ 0·11 - 0·01 - 0·03  - 0·08 + 0·02 - 0·11	Stone 2415 2432  2449 Stone 2447
393 2 394 2 395 8 396 5 397 6 398 1 399 6 400 4 401 \alpha 402 1 403 3 404 \alpha 405 6	20 Aquilæ 25 Aquilæ ω S Sagittarii 57 Draconis δ 61 Sagittarii 1 Cygni κ 62 Sagittarii 46 Sagittarii υ		+ 3·2556 + 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.003 - 0.000 - 0.006 - 0.022 - 0.019 - 0.002 - 0.002	- 0·002 - 0·001  + 0·016 - 0·003 + 0·007 	- 5·696 - 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.453 - 0.388 - 0.485 + 0.001 + 0.596 - 0.188 + 0.597	- 0·01 - 0·03  - 0·08 + 0·02 - 0·11	2415 2432  2449 Stone 2447
394 2 395 S 396 5 397 6 398 1 399 6 400 4 401 \( \alpha\) 402 T 403 3 404 \( \mu\) 405 6	25 Aquilæ ω S Sagittarii 57 Draconis δ 61 Sagittarii 1 Cygni κ 82 Sagittarii 46 Sagittarii υ		+ 2·8165 + 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.000 - 0.006 - 0.022 - 0.019 - 0.002 - 0.019	- 0·001 + 0·016 - 0·003 + 0·007 	- 6·201 - 6·217 - 6·241 - 6·346 - 6·385	- 0.388 - 0.485 + 0.001 + 0.596 - 0.188 + 0.597	- 0.03  - 0.08 + 0.02 - 0.11	2432  2449 Stone 2447
395 S 396 5 397 £ 398 1 399 £ 400 4 401 α 402 1 403 3 404 μ 405 6	S Sagittarii  57 Draconis 8  61 Sagittarii  1 Cygni $\kappa$ 82 Sagittarii  46 Sagittarii $\nu$		+ 3·5160 + 0·0130 + 4·3267 + 1·3806 + 4·3408	- 0.006 - 0.022 - 0.019 - 0.002 - 0.019	+ 0·016 - 0·003 + 0·007	- 6·217 - 6·241 - 6·346 - 6·385	- 0.485 + 0.001 + 0.596 - 0.188 + 0.597	- 0.08 + 0.02 - 0.11	 2449 Stone 2447
396 5 397 £ 398 1 399 £ 400 4 401 α 402 1 403 3 404 μ 405 6	57 Draconis δ 8¹ Sagittarrii 1 Cygni κ 8² Sagittarii 46 Sagittarii υ		+ 0.0130 + 4.3267 + 1.3806 + 4.3408	- 0.022 - 0.019 - 0.002 - 0.019	+ 0.016 - 0.003 + 0.007	- 6·241 - 6·346 - 6·385	+ 0.001 + 0.596 - 0.188 + 0.597	- 0.08 + 0.02 - 0.11	2449 Stone 2447
397 £ 398 1 399 £ 400 4 401 \$\alpha\$ 402 1 403 3 404 \$\mu\$ 405 6	8¹ Sagittarrii 1 Cygni k 8² Sagittarii 46 Sagittarii v		+ 4·3267 + 1·3806 + 4·3408	- 0.019 - 0.002 - 0.019	- 0·003 + 0·007	- 6·346 - 6·385	- 0·188 - 0·597	+ 0·02 - 0·11	Stone 2447
397 £ 398 1 399 £ 400 4 401 \(\alpha\) 402 T 403 3 404 \(\mu\) 405 6 6	8¹ Sagittarrii 1 Cygni k 8² Sagittarii 46 Sagittarii v		+ 4·3267 + 1·3806 + 4·3408	- 0.002 - 0.019	3 + 0·007 	- 6.385	- 0·188 - 0·597	+ 0·02 - 0·11	Stone 2447
398 1 399 6 400 4 401 α 402 T 403 3 404 μ 405 6	1 Cygni r 8º Sagittarii 46 Sagittarii v		+ 1·3806 + 4·3408	- 0.019			- 0·188 + 0·597	- 0.11	2447
309 £ 400 4 401 α 402 1 403 3 404 μ 405 6 6	8º Sagittarii 16 Sagittarii <i>v</i>		+ 4.3408		1	- 6·391	+ 0.597		
400 4 401 α 402 Π 403 3 404 μ 405 6	16 Sagittarii v	- 1		- 0.00k					•••
402 T 403 3 404 μ 405 6 406 6	z Sagittarii			1 - 0000	- 0.001	- 6.420	- 0.472	+ 0.01	2437
403 3 404 µ 405 6			+ 4.1663	- 0.016	- 0.011	<b>-</b> 6·476	- 0.572	+ 0.07	Stone
404 μ 405 G	Faylor 8907—2nd		+ 4.8437	- 0.033	o	- 6·687	- 0.663		<b> </b>
405 6	30 Aquilæδ		+ 3.0092	- 0.001	+ 0.015	-· 6·801	- 0.410	- 0.09	2451
406	μ Telescopii		+ 4.8891	- 0.035	- 0.009	<b>-</b> 6·907	- 0.667	0.00	Stone
	3 Vulpeculæ a		+ 2.5052	+ 0.000	- 0.011	- 7·154	- 0.338	+ 0.10	2467
1404 6	6 Cygni <i>8-</i> —1st		+ 2.4188	[ L 0:001	0.000	<b>-</b> 7·330			
407   6	6 Cygni <b>β—2</b> nd		+ 2.4187	{+0.001	- 0.002	- 7:334	$\left\{ -0.325\right\}$	+ 0.01	24/73
408 3	38 Aquilæ μ		+ 2.9175	- 0.001	+ 0.013	<b>-</b> 7·519	- 0.392	+ 0.13	2479
409   5	52 Sagittarii h²		+ 3.6530	- 0.010	3 + 0.002	- 7.612	- 0.490	+ 0.01	24/78
410 3	39 Aquilæ κ		+ 3.2304	- 0.004	ı – 0.001	- 7.697	- 0.432	- 0.01	2482
411 4	41 Aquilæ		+ 3.1058	- 0.003	0.001	- 7.703	- 0.415	+ 0.01	2484
412 ]	Radeliffe 4400	]	+ 1.6125	- 0.001	5	- 7.961	- 0.212		1
413 1	12 Cygni $\phi$		+ 2.3687	+ 0.001	2 - 0.001	- 8.038	- 0.314	- 0.05	2497
414 5	5 Sagittæ α		+ 2.6806	+ 0.000	0.000	- 8·045	- 0.355	+ 0.01	2495
415	ν Telescopii	-	+ 4.9214	- 0.045	2	- 8:314	- 0.650		
11 1	Lacaille 8195		+ 5.7857	- 0.081	7	- 8:414	- 0.762		
11	50 Aquilæ γ		+ 2.8519	- 0.001	1 - 0.001	- 8·507	- 0.373	- 0.01	2511
418 1			+ 1.8705	+ 0.000	1 + 0.005	- 8·565	- 0.241	- 0.04	2520
419	18 Cygni δ		+ 3.8582	- 0.016	1	- 8.620	- 0.504		
420 7	18 Cygni δ	••••	+ 2.6745	+ 0.000	2 - 0.001	- 8·625	- 0.347	- 0.03	2516

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	Magnitude.	Estimations.	Right	Mean Asce	n ension.		Mean Dist		Observations.	Fraction of Year.
					h.	m.	8.	0	,	"	1	
49.01	421	Taylor 9099	6.0	5	19	42	48:00	145	16	54·O	5	0.71
9.43	422	Taylor 9125	7.9	5	19	44	9.44.3	56	52	9.7	5	0.59
	423	53 Aquilæ a (Altair)	1.0	•••	19	44	46.83	81	27	17.7	4	0.69
57.11	424	Lacaille 8224	5.2	2	19	45	57.0211	159	29	1.0	2	0.76
	425	د Sagittarii	4.5	2	19	46	46.13	132	11	24.4	2	0.76
23.43	426	μ¹ Pavonis	5.2	3	19	48	23.413	157	16	15.2	3	0.76
	427	60 Aquilæ &	4.0		19	49	16.23	83	53	57:3	3	0.64
23.66	428	59 Sagittarii b	4.7		19	49	23.65 6	117	29	39.8	5	0.66
53.09	429	μ² Pavonis	5.6	5	19	49	52:95	157	16	24.9	5	0.78
'	430	61 Sagittarii g	5.0		19	<b>5</b> 0	58:31	105	48	57.6	5	0.71
27.32	431	60 Sagittarii A	5.0		19	51	27·30. <sup>1</sup>	116	31	37·1	5	0.69
41.51	432	21 Cygni η	4.0		19	51	41.53	55	14	33.4	5	0.59
47.07	433	12 Sagittæγ	3.6		19	53	16.93	70	50	27.5	5	0.73
- 1	434	62 Sagittarii c	4.7		19	55	5.28	118	3	1.2	5	0.67
	435	δ Pavonis	4.0	3	19	56	38.18	156	29	35.9	3	0.76
	436	0. A. S. 20266	6.5	5	20	1	32.70	105	22	58.7	5	0.74
52.28	437	O. A. S. 20269	9.9	3	20	1	52.223	105	46	7.0	3	0.76
55.62	438	0. A. N. 20046 S. C.	2 10.3	10	20	2	55.70 62	32	22	0.0	10	0.79
	439	65 Aquilæ θ	3.4		20	4	57.50	91	11	5.7	5	0.58
2.77	440	Lacaille 8363—1st	9·1	4	20	5	2-747	147	20	27.6	4	0.65
-	441	Cordoba XX. 180	8.8	1	20	5	<b>1</b> 5·08 <sup>;</sup>	147	12	18:8	1	0.71
	442	6 Capricorni a <sup>2</sup>	0.0		20	11	13.70	102	55	28.8	8	0.72
	443	8 Capricorni v	4.5		20	13	50.37	102	งอ 8	40 <sup>-</sup> 3	5	0.69
47.65	444	U Cygni, Var. 6		5	20	15	47.70.65	1	29	37·1	5	0.59
52.41	445	0. A. N. 20387—2nd	1	5	20	15	52.481	42	28	55·6	5	0.66
	446	37 Cygnī γ	2.3		90	7 >-	40.00		_	0.0	_	0.50
11.00	447	700			20	17 20	49·00 16·78 8	108	8 36	8.3	5	0·73 0·66
16.78	448	11 0	7.0		20	20	50.60	108	36 13	48.4	7	
27.53	449	T 3:		5	20	25	27·4 <del>9</del> 53	1		7·8	1	0.73
51.46	450	D D T 740	0.5	1	20	25 27	51.92.46	1	55 15	52·8 51·5	5 8	0·65 0·40
			1		20	21		3	19	9T.9	0	0.40
54.36	451	a Indi	1	4	20	28	54.34 6	137	<b>4</b> 3	7.4	5	0.64
	452	β Pavonis	3	5	20	33	51.21	156	38	35.0	5	* 0.74
0.22	453	η Indi	1	5	20	35	0.18 22		21	30-7	5	0.64
14.31	454	50 Cygni a (Deneb)	1		20	37	14:32 1	45	9	30.7	12	0.70
	455	σ Pavonis—2nd	4.6	5	20	37	37.68	159	13	24.8	5	0.73

Number.	Star.		In ]	Righ	t Ascens	ion.	In I	Polar Dista	nce.	rity.
Nun			Annual Precession.		Secular ariation.	Proper Motion.	Annual Precession.	Secular Variation	Proper Motion.	Authority.
			8		8	s	"	"	"	
421	Taylor 9099	•••	+ 4.8107	-	0.0437		- 8.698	- 0.629		
422	Taylor 9125	•••	+ 2.2882	+	0.0013		- 8.804	- 0.296		
423	53 Aquilæ a	•••	+ 2.8920	-	0.0014	+ 0.035	— 8·852	- 0.374	- 0.38	2524
424	Lacaille 8224		+ 6.2699	-	0.1143		- 8.944	- 0.815		
425	د Sagittarii		+ 4.1549	-	0.0245	- 0.003	- 9.009	- 0.537	- 0.08	Stone
426	μ¹ Pavonis		+ 5.9135	-	0.0971		- 9-135	- 0.764		
427	<b>60 A</b> quilæ <b>β</b>		+ 2.9453	-	0.0020	+ 0.001	- 9.204	- 0.378	t .	2538
428	59 Sagittarii b		+ 3.6902	-	0.0137	- 0.002	- 9.212	- 0.474	1 -	2533
429	μ <sup>2</sup> Pavonis		+ 5.9042	-	0.0081		- 9.251	- 0.761	1 '	
430	61 Sagittarii g		+ 3.4074	-	0.0084	- 0.001	- 9.336	- 0.436	1	2540
431	60 Segittarii A		+ 3.6622	_	0.0134	0-000	- 9.372	- 0.468	- 0.03	2500
432	21 Cygni η		+ 2.2525	+	0.0014	- 0.003	- 9·397	- 0.286	+ 0.03	2539 2548
433	12 Sagitta γ		+ 2.6633	+	0.0003	+ 0.003	- 9:514	- 0338	- 0.04	2550
434	62 Sagittarii $c$		+ 3:6966	<u>-</u>	0.0146	+ 0.000	- 9.653	- 0.469	- 0.03	2549
435	δ Pavonis		+ 5.7565	-	0.0967	+ 0.190	- 9.772	- 0.730	+ 1:15	Stone
436	O. A. S. 20266		+ 3:3895		0.0089		70744	0.40-		
437	O. A. S. 20209		+ 3.3976	_	0.00001		- 10.14.4	- 0.423		•••
438	O. A. N. 20046		+ 1.2584		0.0074	***	- 10:168	- 0.423		
430	65 Aquila θ	]	+ 3.0050	_	0.0042	- 0.000	- 10:218	- 0.154		•••
440	Lacaille 8363—1st		+ 4.8563	_	0.0568	- 0000	- 10·400 - 10·404	- 0.382 - 0.603	- 0.01	2576
441	Cordoba XX. 180	1						0 000		•••
442	0.0		+ 4.8450	-	0.0263		- 10.422	- 0.602		
443	0.0	"	+ 3.3301	-	0.0084	+ 0.003	- 10.866	- 0.403	- 0.03	2595
144	FT (1	••	+ 3.3327	-	0.0087	- 0.002	- 11.057	- 0.401	+ 0.01	2608
445	O. A. N 20387—2nd	···	+ 1.8615	+	0.0003		- 11.199	- 0.220		
	O. 11. 14 2000) 2111		+ 1.8617	+	0.0002		- 11.205	- 0.220	•••	
446			+ 2.1516	+	0.0018	- 0.000	- 11:346	- 0.254	~ 0.02	2624
447			+ 3.4408	_	0.0116	- 0.001	- 11.522	- 0.406	- 0.01	2623
			+ 3:4307	-	0.0112	- 0.003	- 11:634	- 0.403	+ 0.01	2626
-149			+ 4:1462	-	0.0348		- 11.891	- 0.482		
450	R. P. L. 143		- 8.5212	-	1.2757		<b>-</b> 12·060	+ 0.998		
1			+ 4.2429	-	0.0398	0.000	- 12:133	- 0.488	- 0.08	2+==
			+ 5.4963	_	0.1163	- 0.008	- 12·473	- 0.623	- 0.00	Stone
1			+ 4.1241	_	0.0206		- 12·553	- 0.499		Stone
			+ 2.0135	+	0.0021	- 0.000	- 12·705	- 0.226	- 0.00	2679
455	σ Pavonis—2nd	]	+ 5.7948	-	0.1443		- 12·733	- 0 220 - 0 649		
		1					/00	- 0010		•••

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	Magnitude.		Estimations.		Mear Asce	n nsion.		Mean Dista	ince.	Observations.	Fraction of Year.
				-		h.	m.	8.	٥	,	,,		
	456	12 Delphini γ-1st	5.	3		20	40	56.28	74	19	4.3	5	0.66
	457	12 Delphini γ-2nd	4.	6		20	40	57.06	74	19	3.4	5	0.71
13.83	458	53 Cygni €	. 2	7		20	41	13.8\$3	56	29	21.1	1	0.79
$\sim$	459	3 Aquarii	. 4	6		20	41	14.75	95	28	35.2	5	0.73
J 16.10	460	54 Cygui λ¹, Var. 5	. 6	3	7	20	42	16.110	56	4	37.4	7	0.71
1674	461	a Microscopii	. 4	5	5	20	42	16· <del>69</del> ·ን'	124	13	59.0	5	0.74
	462	.Indi	. 5	5	2	20	42	35.84	142	3	52.4	2	0.75
	463	β Indi	. 4	0	4	20	45	11.14	148	<b>54</b>	59.4	4	0.70
19.06	464	32 Vulpeculæ	. 5	1		20	49	19.076	62	24	33.2	9	0.75
6.03	465	ζ Microscopii	. 5	6	5	20	55	6.00 z	129	6	371	5	0.64
	466	μ Indi	5	.6	5	20	56	10.60	145	12	42·1	5	0.67
42.05	467	0.0	l l	.5		21	7	42.065	60	16	36.6	16	0.76
56.176	468	50 G	1	.5		21	8	56.15}	105	40	53.4	5	0.64
5.06	469	0 T 32	1	.5	5	21	11	5.0\$ 6	143	57	47.8	5	0.72
53.22	470	01 3/1	į.	5	5	21	12	53·20 1_	131	19	41.4	5	0.66
	471	γ Pavonis		90	5	21	16	15.07	155	55	16.0	5	0.72
	472	1 Pegasi	4	63		21	16	23.76	70	43	15.1	5	0.65
33.8₺	473	θ <sup>2</sup> Microscopii	6	3·0	5	21	16	33 <sup>.</sup> 78 93	131	31	57.7	5	0.72
28.07	474	γ Indi	5	5.2	5	21	17	28.03 7	145	11	24.9	5	0.75
	475	34 Capricorni (		3.8		21	19	38:51	112	56	<b>35</b> ·0	5	0.68
	476	22 Aquarii 8	;	3·1		21	25	4.89	96	-6	40.7	16	0.77
	477	39 Capricorni e		<b>1</b> ·5		21	30	11.38	110	0	<b>58·</b> 3	5	0.65
19.37	478			9.0	1	21	30	19:27	133	59	2.9	1	0.79
	479	41 Capricorni	-	5.2		21	35	0.21	113	49	4.9	5	0.71
	480	43 Capricorni κ	•••	4.7		21	35	47.42	109	25	33.3	5	0.73
53.06	11	V Cygni, Var. 7	1	0.4	10	21	36	53.046	47	43	10.9	10	0.81
17.38	482	*** *** ***		9.3	5	21	37	17-398	47	44	21.9	5	0.77
36.85	483	9 Piscis Australis .		4-2	•••	21	37	36.90	123	3 <b>5</b>	9.3	5	0.78
	484	8 Pegasi	1	2-4		21			80		15.9	2	0.74
	485	o Indi	•••	5•5	1	21	<b>4</b> 0	20.96	160	12	5.4	1	0.75
30.88	486	10 Piscis Australis θ		5·1		21		30.8∤8	1			5	0.75
	487	γ Gruis		3.2	5	21			127			5	0.70
27.54	488	16 Pegasi		5·O		21			•			6	0-78
35-15		π Indi		5 <b>5</b>	5	21			1			5	1
32.09	490	δ Indi		<b>5·1</b>	5	21	4.9	32:08 9	145	34	34.6	5	0.79

#### Observed with the Madras Meridian Circle in that Year.

ber.	Star.	In R	ight Ascens	ion.	In Po	lar Distance.		rity.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
1		8	8	s	,,		,,	
456 457	12 Delphini γ—1st 12 Delphini γ—2nd	} + 2.7857	- 0.0000	- 0.003	- 12 <sup>.</sup> 953 - 12 <sup>.</sup> 955	} - 0.304	+ 0.20	2686
458	53 Cygni ε	+ 2.3972	+ 0.0030	+ 0.028	- 12.973	- 0.261	- 0.34	2689
459	3 Aquarii	+ 3.1700	- 0.0065	- 0.002	- 12·974	- 0.347	+ 0.03	2684
460	54 Cygni λ <sup>1</sup>	+ 2.3892	+ 0.0030	- 0.001	- 13.042	- 0.259	- 0.02	2692
461	a Microscopii	+ 3.7633	- 0.0240		- 13·043	- 0.411		
462	ι Indi	+ 4:3737	- 0.0512	- 0.002	- 13.063	- 0.478	+ 0.06	Stone
463	β Indi	+ 4.7384	- 0.0734	- 0.008	<b>-</b> 13·235	- 0.514	- 0.01	Stone
464	32 Vulpecula	+ 2.5558	+ 0.0026	- 0.002	- 13.504	- 0.270	+ 0.00	2709
465	ζ Microscopii	+ 3.8571	- 0.0303	- 0.008	- 13.874	- 0.400	+ 0.06	Stone
466	μ Indi	+ 4:4556	- 0.0620		- 13·942	- 0.462		
467	64 Cygni (	+ 2.5510	+ 0.0038	- 0.002	- 14.649	- 0.248	+ 0.07	2760
468	29 Capricorni	+ 3.3271	- 0.0119	+ 0.000	- 14:723	- 0.324	- 0.01	2759
469	θ Indi	+ 4.3073	- 0.0299		- 14.849	- 0.417	***	
470	θ¹ Microscopii	+ 3.8556	- 0.0345		<b>- 1</b> 4·954	- 0.369	•••	
471	γ Pavonis	+ 5.0325	- 0.1203	+ 0.019	<b>-</b> 15·150	- 0.475	- 0.83	Stone
472	1 Pegasi	+ 2.7660	+ 0.0010	+ 0.008	- 15.158	- 0.257	- 0.08	2780
473	θ² Microscopii	+ 3.8469	- 0.0350		- 15.167	- 0.360		
474	γ Indi	+ 4.3252	- 0.0642	- 0.005	- 15.219	- 0.404	- 0.04	Stone
475	34 Capricorni $\zeta$	+ 3.4367	- 0.0167	- 0.001	- 15:342	- 0.316	- 0.01	2785
476	22 Aquarii <b>s</b>	+ 3.1618	- 0.0071	- 0.001	<b>–</b> 15·64 <b>5</b>	- 0.282	+ 0.00	2797
477	39 Capricorni e	+ 3:3684	- 0.0148	- 0.001	- 15.921	- 0.292	+ 0.00	2806
478		+ 3.8565	- 0.0394		-15.927	- 0.337	***	
479	41 Capricorni	+ 3.4211	- 0.0175	+ 0.006	<b>-</b> 16·173	- 0·288	+ 0.11	2819
480	43 Capricorni κ	+ 3:3497	- 0.0145	+ 0.007	- 16:214	- 0.281	+ 0.00	2821
481	V Cygni, Var. 7	+ 2.3615	+0.0078		<b>- 16:27</b> 0	- 0.195	•••	
482		+ 2.3637	+0.0080	•••	- 16:291	- 0.194		
483	9 Piscis Australis	+ 3.5890	- 0.0260	- 0.003	- 16:307	- 0.298	+ 0.10	2825
484	8 Pegasi 6	+ 2.0451	- 0.0002	+ 0.001	- 16:334	- 0.242	- 0.01	2835
485	o Indi	+ 5.1977	- 0.1671	•••	- 16· <b>4</b> 45	- 0.427	•••	
486	10 Piscis Australis $\theta$	+ 3.5400	- 0.0240	- 0.006	<b>— 16·454</b>	- 0.288	- 0.04	2842
487	γ Gruis	+ 3.6458	- 0.0310	+ 0.002	<b>— 16</b> ·746	- 0.286	+ 0.02	Stone
488	16 Pegasi	+ 2.7261	+ 0.0052	- 0.001	- 16.793	- 0.210	+ 0.00	2864
489	π Indi	+ 4.2629	- 0.0770		- 16.800	- 0.333		
490	δ Indi	+ 4.1238	- 0.0664	- 0.005	<b>- 16·89</b> 1	- 0.318	+ 0.01	Stone

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	Magnitude.	Estimations.	Right	Mea t Asc	n cension.	Polar	Mean Dist		Observations.	Fraction of Year.
1	Z		×	ES							Ope	된
	1				h.	m.	8.	۰	,	"		
47-27	491	κ¹ Indi	5.1	5	21	49	47.237	149	35	51.3	5	0.76
7/2/	492	12 Piscis Australis η	5 5		21	53	45.94	119	2	35.2	6	0.71
11.70	493	κ <sup>2</sup> Indi	5·5	5	21	57	11.85.70	150	13	48.5	5	0.80
41.70	494	λ Gruis	5.0	5	21	58	41.67.70	130	8	10-7	5	0-77
1	495	34 Aquarii a	3.2		21	<b>5</b> 9	27.85	90	54	<b>5</b> 9·9	8	0.78
	400											
1	496 497	22 Pegasi ν	4.8	ا ت	21	<b>5</b> 9	28.66	85	32	30.8	5	0.75
20.11	497	α Tucanæ	2.4	5	22	10	3.60	150	52	19.5	5	0.72
20.46	499	43 Aquarii θ`	4:3	;	22	10	20.476	98	23	41.1	13	0.79
5475	500	δ¹ Gruis δ² Gruis	4·2 5·0	5	22	21	54.725	134	7	24.8	5	0.74
23.98	300	δ² Gruis	50	5	22	22	23.988	134	22	40.0	5	0.79
	501	R. P. L. 150	5.5		22	22	49-46	4	30	43.6	9	0.52
16.44	502	R. P. L. 151	6.9		22	23	16:18:44	4	23	52.2	6	0.23
30-45	503	17 Piscis Australis β	4.3		22	24	30.49 €	122	58	34.1	5	0.81
	504	62 Aquarii η	4.2		22	29	2.07	90	45	3.6	15	0.82
-	505	18 Piscis Australis	4.1		22	33	50.98	117	41	5·O	5	0.72
	506	•	0.0									0 -0
18.71	507	β Gruis	3.0	5	22	35	18.75	137	31	37·8	5	0.78
14.04	508	42 Pegasi ζ	3.6	•••	22	35	19.55	79	48	36.3	9	0.82
1/1/3/4	509	44 Pegasi η	3·1 4·0	"	22	37	14.054	60	25	19.4	5	0.75
17.21	510		9.8	5	22	41	6.85	141	57	47.4	5	0.72
17-21	010		9.0	10	22	42	17.281	102	28 .	36·9	10	0.83
Š7.4€	511	Lalande 44635	8-4	10	22	42	57·50 48	101	59	57· <b>1</b>	10	0.81
	512	W. B. E. XXII. 918	9.2	10	22	45	6.66	102	41	9.6	10	0.85
	513	73 Aquarii λ	3-8		22	46	11.52	98	14	0.3	1	0.87
0.31	514	74 Aquarii	6.8	5	22	47	0.301	102	16	11.4	5	0.80
	515	75 Aquarii	7.9		22	47	37.80	102	<b>5</b> 0	34.8	10	0.77
6.99	516	78 A cuanii 8	9.4		95	10	(. 99 7 <del>. 02</del>		-	ok -	_	0.55
3,1.054	517	76 Aquarii δ	ı		22	48		106	28	27.1	5	0.77
•4	518	24 Pis. Aust. α(Fomalhaut W. B. E. XXII. 1129	1 0.0	1	22	50		120	16	26:9	1	0.91
		0 4 5 00550	0.0	10	22	55 50	1.91	102	44	34·1	10	0.78
14-17	520	1 A 3 7	0.0	6	22		• •	110	2	35.4	6	0.81
	1 2	L Andromedæ o	. 3.8		22	56	15.58	48	20	4.6	5	0.77
	521	W. B. E. XXII. 1204	8.3	10	22	58	2.95	102	50	29.4	10	0.75
	522	54 Pegasi a (Markab)	0.0		22			75	27	23.4	11	0.89
	523	Lalande 45213	0.0	10	23			102	28	14.7	10	0.77
	524	O. A. S. 22620	0.0	6	23		30.91	109	52	14.2	6	0.81
	525	Lalande 45504	0.0	10	23		-	102	14		10	
	]		1	1	1		1-1- No. 24 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	1.			1	1

501.—Groombridge 3820. 502.—Groombridge 3824.

<sup>510—511—512—514—515—518—521—523—525.—</sup>Comparison stars for Mars in 1877.
519—524.—Comparison stars for Irene in 1877.

## Observed with the Madras Meridian Circle in that Year.

11 60		In T	Rich	t Ascens		1 .			1
A	Star.			L ASCERS	ion.	In .	Polar Distan	ice.	rity
Number.		Annual Precession.		Secular ariation	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8		8	8	"	"	"	1
491	κ¹ Indi	+ 4.2983	-	0.0817	+ 0.009	- 16.904	- 0.331	- 0.09	Stone
492	12 Piscis Australis η	+ 3.4608	-	0.0218	- 0.001	- 17:088	- 0.257	- 0.03	2873
493	κ² Indi	+ 4.2655	-	0.0842		- 17:243	- 0.311		
494	λ Gruis	+ 3.6414	-	0.0338		- 17:310	- 0.261		l
495	34 Aquarii a	+ 3.0830	-	0.0041	- 0.001	- 17:344	- 0.219	- 0.00	2890
496	22 Pegasi ν	+ 3.0200	-	0.0018	+ 0.005	- 17:344	- 0.214	- 0.11	2891
497	α Tucanæ	+ 4.1803	-	0.0858	- 0.007	- 17:789	- 0.274	+ 0.04	Stone
498	43 Aquarii θ	+ 3.1630	-	0.0075	+ 0.006	- 17:802	- 0.205	+ 0.02	2929
490	δ¹ Gruis	+ 3.6104	-	0.0388	- 0.007	- 18.245	- 0.211	+ 0.01	Stone
500	δ² Gruis	+ 3.6128	-	0.0393	- 0.006	- 18:263	- 0.210	+ 0.07	Stone
501	R. P. L. 150	9.00tre		1.0201					
502	P D T 151	- 3.8976 - 4.0491	-	1.2201	+ 0.052	<b>-</b> 18·278	+ 0.242	0.04	2993
503	17 Piscis Australis 8	- 5101	-	1.2853	+ 0.025	- 18.295	+ 0.250	- 0.01	2997
504	62 Aquarii $\eta$	+ 3·4233 + 3·0790	-	0.0249	+ 0.001	<b>— 18·339</b>	- 0·194	+ 0.04	2964
505	18 Piscis Australis e		-	0.0031	+ 0.006	- 18:495	- 0.166	+ 0.11	2979
		+ 3.3297	-	0.0197	- 0.000	- 18.654	- 0·171	+ 0.01	2986
- 1	β Gruis	+ 3.5997	_	0.0436	+ 0.012	- 18.701	- 0.181	+ 0.04	Stone
	42 Pegasi ζ	+ 2.9854	+	0.0023	+ 0.004	- 18.701	- 0.149	+ 0.03	2992
	44 Pegasi η	+ 2.8041	+	0.0103	+ 0.000	- 18.761	- 0.137	+ 0.03	3003
509	e Gruis	+ 3.6490	_	0.0519	+ 0.003	- 18.878	- 0.172	+ 0.11	Stone
510		+ 3.1706	-	0.0088		- 18:911	- 0.145		
511	Lalande 44635	+ 3.1659	_	0.0085		70.000	0.7.4		
	W. B. E. XXII. 918	+ 3.1688	_	0.0089		- 18.932	- 0.145	•••	
	73 Aquarii A	+ 3.1335		0.0063	- 0.002	- 18·993 - 19·023	- 0.141	•••	
	74 Aquarii	+ 3.1633	_	0.0085			- 0.137	- 0.04	3019
	75 Aquarii	+ 3.1669	_	0.0088		- 19·046 - 19·063	- 0.137	+ 0.01	3021
			!	2 0000	+ 0.001	- 19,009	- 0.136	+ 0.04	3024
	76 Aquarii δ	+ 3.1942	-	0.0111	- 0.005	- 19:077	- 0.136	+ 0.01	3025
	24 Piscis Australis α	+ 3.3042	-	0.0210	+ 0.023	- 19·149	- 0.135	+ 0.16	3032
	W. B. E. XXII. 1129	+ 3.1568	_	0.0082		- 19:254	- 0.119		
	O. A. S. 22573	+ 3.2062	-	0.0130		- 19.283	- 0.121		
5 <b>2</b> 0   ]	l Andromedæ o	+ 2.7456	+	0.0186	+ 0.001	- 19.285	- 0.102	0.00	3043
521 V	W. B. E. XXII, 1204	+ 3.1536	_	0.0083		- 19:326	- 0.115		.
522   5	54 Pegasi α	1			+ 0.003	- 19·339	- 0·107	 ⊥ ∩·∩a	2050
523 ]	Lalando 45213	+ 3.1475		0.0086		- 19·392	l l	+ 0.03	3050
524 (	O. A. S. 22620	+ 3.1942		0.0127		- 19·405	- 0·110		
525 1	Lalande 45504	+ 3.1364		0.0074		- 19·559	- 0.093		
						20 000	- 0 080		•••

Mean Positions of Stars for 1877, January 1st.

	Number.	Star.	į	Magnitude.	Estimations.	Right	Mean Asce	n ension.	Polar	Mean Dista	ance.	Observations.	Fraction of Year.
	{			-		h.	m.	s.	0	,	"		
,	526	W. B. E. XXIII. 1		9.2	10	23	9	21.001	101	42	49.6	10	0.77
15	527	γ Tucanæ		4-0	3	23	10	14.38.15	148	54	35·5	3	0.95
	528	6 Piscium γ		3.8		23	10	47.27	87	23	22.1	1	0.87
76	529	Lalande 45582		8.1	10	23	11	14-776	102	23	4.4	10	0.83
73	530	W. B. E. XXIII. 1	89	9.2	10	23	11	27.753	101	56	10.3	10	0.89
	531	S Pegasi, Var. 5 .		10-1	10	23	14	19.09	81	45	11.5	10	0.81
	532	Lalande 45708 .		8-2	9	23	14	28.52	101	12	19.8	10	0.82
57	533	Lalande 45777 .		8.2	10	23	16	37.587	101	26	51.8	10	0.83
8	534	Lalande 45885		9.0	10	23	20	22.198	101	42	31.2	10	0.79
60	535	8 Piscium "		5.0		23	20	37·6 <b>1</b> 0	89	25	2.8	2	0.94
1	536	W. B. E. XXIII.	423	9.5	8	23	22	29.65	100	46	41.0	8	0.87
	537	Lalande 45965		7.8	10	23	22	38.91	99	56	34.3	10	0.74
2.20	538	W. B. E. XXIII.	453	9.3	10	23	23	52·21 º	101	7	38.6	10	0.87
.10	539	W. B. E. XXIII.	463	9.3	10	23	24	29.120	100	50	1.8	10	0.84
87	540	Lalande 46123		9.3	10	23	26	42.867	100	2	47.8	10	0.78
در	541	R. P. L. 158	•••	5:7		23	27	50.43 4 <del>0.26</del>	3	22	19:8	1	0.30
,5	542	TH Distance		1 40	1	23	33	37·40	85	22	24.6	15	0.86
14	543	20. 1-1- 1-		4.0		23	42	30.974	118	48	38.0	8	0.89
' '	544	00 Din.	•	4.0		23	52	59·67	83	48 49	38·0 2·0	10	0.90
	545	D Class	•••	4.0		23	57	26.36	108	49	15·2	2	0.72

526-529-530-532-533-534-536-537-538-539-540.—Comparison stars for Mars in 1877. **541.**—Groombridge 4101.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In	Right Ascens	ion.	In I	Polar Distan	.ce.	rity.
Num	our.	Annual Precession	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Anthority
		s	×	s	<b>I</b> "	,,	,,	İ
526	W. B. E. XXIII. 143	+ 3.133	1 - 0.0072		- 19:567	- 0.092		<b></b>
527	γ Tucanae	+ 3.249	8 '- 0.0645	- 0.012	- 19·583	- 0.104	- 0.04	Ston
528	6 Piscium $\gamma$	+ 3.059	2 + 0.0002	+ 0.049	- 19.594	- 0.087	- 0.02	3082
529	Lalande 45582	+ 3.134	3 - 0.007.1		- 19.604	- 0.089	.:.	<b></b>
530	W. B. E. XXIII. 193	+ 3.131	7 - 0.0072		- 19.606	- 0.088		
531	S Pegasi, Var. 5	+ 3.033	+ 0.0035		- 19:658	- 0.080		
532	Lalande 45708	+ 3:124	5 - 0.006G		- 19:661	- 0.083		
533	Lalande 45777	+ 3.123	3 - 0.0066		- 19:097	- 0.078		
534	Lalande 45885	+ 3.119	) ~ 0.0066		- 19755	- 0.069		<b></b>
535	8 Piscium κ	+ 3.000	) - 0.0000	+ 0.004	- 19759	- 0.069	+ 0.10	3116
536	W. B. E. XXIII. 423	+ 3.113	7 - 0.0000		- 19.786	- 0.066		
537	Lalande 45965	+ 3.110	3 - 0.0055		- 19788	- 0.066		
538	W. B. E. XXIII. 453	+ 3.113	5 - 0.0001		- 19805	- 0.062		
539	W. B. E. XXIII. 463.,	+ 3.1117	7 - 0.0059		- 19814	- 0.001		l
540	Lalande 46123	+ 3.100	5  - 0.0053		- 19843	- 0.057	•	
541	R. P. L. 158	- 0.1030	0.5342	+ 0.084	- 19·857	+ 0.011	- 0.00	3147
542	17 Piscium	+ 3.0589	+ 0.0030	+ 0.023	- 19.922	- 0.042	+ 0.44	3148
543	δ Sculptoris	+ 3.128	3 - 0.0161	+ 0.000	- 19:996	- 0.026	+ 0.10	Ston
544	28 Piscium ω	+ 3:0678	3 + 0.0047	+ 0.009	- 20.045	- 0.005	+ 0.11	3191
545	2 Ceti	+ 3.0770	0.0080	- 0.000	- 20:053	+ 0.004	+ 0.01	3204

### SEPARATE RESULTS

OF

#### **OBSERVATIONS**

#### OF THE FIXED STARS

MADE WITH THE

# MADRAS MERIDIAN CIRCLE

IN THE YEAR

1878

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date		Magnitude.	Asc	nn R ens 1878 m.	3.	No. of Wires.	D	n Poistan 1878.	ce	Observer.	Number and Date.	Magnitude.	A.	scens 1878		No. of Wires.	$\mathbf{D}$	n Poistan 1878	ice	Observer.
1	2	1 And	lron	red	œa,	$(Al_I$	ohera	(t).			10		7	rayl	or 10	7.				
Nov.	9		0	2	4.99		61	34	.59.8	M	Nov. 25	6.0	0	23	24:01	l	131	20	25.8	M
3	1			2	4.98			34	58.8	м	Dec. 6	.6:0		23	24.10			20	25.1	R
2	29			2	5.00			35	2.3	М	13	6.0		23	24.29			20	24.8	R
Dec.	6			2	5.02			35	0.1	B			<u>'</u>	7.0						
2		,	22	An	drome	edæ.					11 Dec. 11		ما		2 <i>Ceti</i> 48 <sup>.</sup> 82		۱ ۵4	917	EQ.5	
Nov.	25 27	5·1 5·0	0		59·08 59·04		44	<b>3</b> 6					<u></u>		avon	<u>!</u>	94	-01	52 5	R
	2/	30			00 04		<u> </u>	30	40 4	M	12			· · I	aoon	ιδ.				
3			κº	Sc	ulpto	ris.					Nov. 14	5.3	0	25	31.76	1	139	28	42.4	М
Nov.		5.7	0		22.70		118			M	13	1	5 <i>C</i>	assi	opeiæ	κ	1st.			
	28	5.7		5	22.46	<u> </u>	<u>L_</u>	28	45·3	M	Nov. 21	4.3	10	26	4.65	1	97	11	29.2	м
		00	Da		i	1700					107.21	10	1 0			1	21	-2.2		
4		, ,	, L EĮ	jus	iγ, 4	uye.					14			Тау	lor 1	39.				
Nov.			0		57:31		75	29	42.9	M	Nov. 27	5.5	1.0	27	38.88	(	120	12	50.3	1 TAT
Dec.	2			6	57.22			29	39.2	R.		1				T	120			
5				ל	Ceti.						15		7	$l^2$ $F$	hæni	cis.				
Nov.	Q	l	0		26.48		1700	0.0	no/	. 1	Nov. 22	5.2	0.	29	51.81		138	40	12.6	М
		1	-		40 40	1	109	36	321	M	16		15	Ca	ssiope	ni on	÷ 6			
6				ζΙ	ucan	æ.					10		. 11	- ca	รรเบยเ	ive !	,			
Nov.	74	5.0	1 0	12	42.50	1	155	95	97.6	3 M	Dec. 13		0	30	10.74		36	46	28.2	R
	22	5.0			42.43		199		32.6	1	1.		90	4-2	******	J				
		·	·		<del></del>	<u> </u>					17		40 .	anu	romed	vW 7	Γ			
7				$\pi$	Tucar	æ.					Dec. 6	4.6	0	30	21.91		56	5 <b>\$</b>	<b>8</b> .9	R
Nov.	15	4.9	0	14	58.91		160	18	9-:	s M	7.0			D J	~7:££~	170	-			
		-	·			_'	<del></del>			!	18				cliffe					
8			ı	Se	ulpto	ris.					Nov. 11	4.9	0		25.77		41		59.9	1
Nov.	11	5.9	0	75	23.28	. [	1110		ρe.	ا م	26	4.5		32		1			58.4	
11UV.	21	5.2	"		23.37		117.8	39 39	23· 22·	- 1	1	5.6		32	25.75	5		18	58-2	R
Dec.		5.1			23-22	1		39		1	1			T a	aille	חלן				
	11	5.7			23:43		- 1	39		ı	19									
	12	5.6		15	28.58	<u>:                                    </u>		.39	22	9 R	Nov. 15	5.5	10	34	42.29	ə	150	8	25.6	M
9			2	y Se	eulpto	ris.		-			20	···	2	0 <i>C</i> (	rssiop	eiæ	$\pi$		-	
Nov.	8	5.3	0	21	52·9	3	125	3 \$0	52 <sup>.</sup>	9 м	Dec. 13	5.3	1	36	43.08	s	43	38	34:3	TR.

11	7			<del>, ,</del>														
Number and Date.	Magnitude.	Asce	n Right ension. 878.	No. of Wires.	D:	an P istan 1878	ce.	Observer.	Number and Date.	Magnitude.	1	Lsce	Right nsion 78.	No. of Wires.		ean Dista 187		Observer.
21	,	$\lambda^1$ (	Sculpto	ris.					30		37	An	drome	edæ	μ	***************************************		
Dec. 12	5.4	0 36	50.22		129	7	58.2	l n	Nov. 15	<b></b>	0	49	58.83		52	9	45·8	M
22		10	6 Ceti	В					Dec. 9			49 49	59·01 58·97			9	45·8 45·6	R
Nov. 9		0 37	27:95		108	39	20.8	M	31		38	And	lrome				-100	10
14 25		37		• •		39	21.9	М		1	00 4	1160	urome	เยา	7			
27		37				39 39	21·0 22·9	M	Dec. 6		0	50	41.42		67	14	-	R
28		37				39	22.8	M	79			50	41.50		<u> </u>	14	28.7	R
		··· ··							32		(	a Si	culpto	ris.				
23		ηP	hœnici	ε.					Nov. 14	5.3	10	52	43.53	l	120	1	2.9	M
Nov. 21	5.0	0 37	52.01		148	7	57:6	м	Dec. 7	5.0		52	43.80			1	2.1	R
				'	• • • •				14	5.2		52	43.52	4		1	1.8	R
24		λıZ	culptor	is.					21	5.0		52	43.72			1	1.3	R
Dec. 18	5.2	0 38	17-93		129	5	38.7	R	33		7	1 ]	Pisciu	ฑ €				
25		34 An	dromed	7.00 E					Nov. 9		0	56	36.66		82	46	1.3	M
23									Dec. 6			56	36.75			46	1.9	M
Nov. 8	4.9	0 40					48.6	M	Dec. 0			56 56	36·71	•••		46 46	1.6	R
Dec. 11	4.6	40	52.24			23	47.5	R	12			56	36.83			46	1.9	R
26		35 An	dromed	'm 11					14		j	56	36.78			46	1.5	R
40		oo Am	ui oinicu	ill v					16	•••		56	36.79		(	46	0.9	11
Nov. 22	4.9	0 43	5:30		49	35	9.3	M	18 20		1	56 56	36·88 36·73			46 46	0.0	R R
27		19	Ceti 🍫	2					34				hænici			-10		
Dec. 6	6.0	0 44	0.79	[	101	18	61	R		1		1,		ა.				
12	5.8	44	0.87			18	5.6	n	Dec. 9	5·8 5·8	1		52-13		147	39	34.8	11
21	2.0	44	0.86			18	4.6	R	13	5.7	į	56 56	51.99			39 39	36.0	R R
00		o 101.	anicis.						Tentono de o ma	.1,	·	- 0					50 7	
28	1 3		wnicis.	٠ .					35		30	Cas	ssiopei	iæ p	ı			
Nov. 11	5·6	0 45	7.80				11.7	M	Nov. 12	5.4	1	0	9.17	1	35	40	45.8	м
Dec. 13	5·5 5·7	45 45	7·63 7·76				10.2	M R	21	5.7	1	Ō					44.2	
<u>'</u>	-	Rada	liffe 24	!-					36		41	Anc	lrome	dæ.	-		Material Control	
29				#/.					Nov. 28	5.7	1	1	1.13	]	46	4.9	30.5	,,
Dec. 11	5.4	0 48	9.45		41		9.5	R	Dec. 12	5.4		1	0.05				29.7	M R
16	}	48	9.42		5	59	0.8	R	21	5.1	1	1	0.91				28.7	

- 6/

9.76/

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	lean Polar Distance 1878.	Observer.	Number and Date.	Magnitude.	Mean Ascer 187	nsion	No. of Wires.	D	an P istar 1878		Observer.
37	$42$ Andromedæ $\phi$		1	45		46 An	drome	dæ	Ę			
Dec. 11	]   1 2 25.43     4	3 24 32.9	R	Nov. 21	4.9	1 15	9.54	l	45	6	39-4	м    9
	۲n: ۰۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰ ۰		$\neg$	28	5.0	15	9.63		10	6	40.0	м
38	ζ Phænicis—2nd.		ч	Dec. 12	4·6 5·0	15 15	9:34 9:34 9:36	•••		6	39.6	R
Nov. 11	1	5 58 56.0	м	18	4.7	15	9.32	•••		6	39.5	R R
Dec 13	5·2 3 15·23 6 5·0 3 15·24		M								!	
200	0 10 24	50 514	R	<b>4</b> 6		36 Cas	siopei	æ ¥	r			- 11
39	84 Piscium $\chi$		ı	Dec. 11	4.8	1 17	19.75		22	30	25.7	R
Nov. 22 *	5.2 1 4 53.87   6	9 36 53.3	м	21	4.7	17	19.66			30	26.0	R
Dec. 7	5.1 4 53.84	36 51.7	R									_
9	5.2 4 53.99	36 52.0	R	47		45	Ceti $\theta$	1				1
18	5.2 4 53.80	36 51.9	R	Nov. 11		١			1			
40	Turi7 200			14	•••	1 17	55·45 55·41	•••	98	48	46.3	M
40	Taylor 396.		l	15	••• 	17	55.57			48 48	45·8 47·4	M M
Dec. 12	5.8   1 7 8.07     19	8 30 10.9	R	22		17	55.46			48	48.9	M
	27 (-1:		-1	Dec. 6		17	55.52	•	Ì	48	47.1	R
41	37 <i>Ceti</i> .			9 16		17	55.60			48	45.7	R
Dec. 11	5.6   1 8 15.02     9	8 34 43.4	R	20		17	55.48 55.51		ļ	48	47·7	R
21	5.5 8 15.20	34 43.7	R								2/ 0	
42	ν Phænicis.			48		$c^2$ $F$	hænie	is.				
Nov. 26	5.0   1 9 40.62     13	36 11 2.8	м	Dec. 7		1 19	16:77		132	7	39.6	R
43	Lacaille 361.		_	49		46 (	Ceti.					
Dec. 13	6.2   1 12 49.45     18	7 2 32.3	R	Nov. 26	5.3	:	37.23	5	105	14	1.5	м
			-		<u> </u>	<u> </u>						
	l Ursæ Minoris a, (Pola	rıs).		50		94 Pi	scium.					
Nov. 25 27	1 14 1.99 2	1	м	Dec. 12	5.0	1 20	6.40	5	71	23	33.4	R
	14 2.22   3	20 28.1	М		10	O 4 4	7					
1 7	Trsæ Minoris a, (Polaris	)—s.p.		51		Andro			1		,	
May 25	1 14 1.93   3	1 20 29.1	м .	Dec. 13	5.1	1 20	21.50		45	13	24.2	R
31	14 1.57 3		M	52	49	Andr	nmedæ	A				
June 15	14 2.31 3		м		_				1			
July 6	14 2:43 3	20 28.9	D. B	Dec. 14	5.2	1 22	47.38		43	37	22.5	R

Dec

Separate Results of Madras Meridian Oircle Observations in 1878.

Number and Date.		an Right cension 1878.	No. of Wires.	Iean P Distar 1878	ice	Observer.	Number and Date.	Magnitude.	Mean Ri Ascens 1878 h. m.	ion	1	n Polestance 878.		Observer
53	99	Pisciui	n ŋ				61		Lacai	lle 499.				.:
Jan. 4	1	94 57:35	1	75 17		M	Dec. 31	7.0	1 34	48.70 €	156	11 8	55-9	R .
5		24 57:35 24 57:39		17 17		M	62		106 F	iscium	ν			
8 Nov. 12		24 57 35	1 1	17			Jan. 5	l l	1 35	ا ا	\ 85	7	48.1	м
Dec. 9		24 57:32	1	17	7 1.4	R	7		35	4.0-			48.6	м
11		24 57:25	5	12		1	8		35	4.91 .		7	48.8	м
18		24 57:33	1	1′			9		35	4.88		7	47.4	M
20		24 57:35	5	1	7 2.0	) R	10		35				47.6	м
		Taylor 5	502				Nov. 8		35	4.07		-	49.0	м
5 <b>4</b>		z wg wi				,	Dec. 9		35 35	4.00		-	47·5	R R
Nov. 21	5.7 1	27 28.6	9	127 2			12 21		35	4.00		-	48.5	R
28	5.9	27 28.8	1 1		9 30	- 1		1	1					-
Dec. 13	5.7	27 28.7	1 1		9 33.	- 1	63		p Eric	lani—1	!st.			
21	6.0	27 28:0	7			0 10	Dec. 13	5.7	1 35	9.66	5 146	48	56:9 [	B
55		Taylor !	504.				Dec. 10	101	<u> </u>					
1) a.s. 5	5.6 1	27 36	l <sub>7</sub>	140	21 8	5 1	64		54 An	$drom \varepsilon c$	læ.			1
Dec. 7	00 1	27 007	"				Dec. 14	4.4	1 36	1.00	39	55	87.9	R
56		49 Cei	ti.						ala P	hœnicis	•			
rs. 10	5.8	28 40.	22	106	18 7	·9   F	65		Ψ' 1	recented				.
Dec. 12		28 39.9	1 1	-		·5 R	Dec. 16	6.0	1 36	5.83	128	3 45	8.0	R
						!	-		1	Eridan	;			
57	50	Andron	ncdæ v	,			66			1				.
Dec. 14	1 1	1 29 38	21		12 19		B Dec. 11	5.8	1 37	47.18	14	4 21	8.6	R
18		29 38	42		12 20	).]	R			1				
	- ماس . يا	an militar es eres					67		€ 50	ulptori	S.			.
58	;	ol Andro	omedæ	•			Nov. 25	5.4	1 39	55.76	11	5 39	46.4	M
15 11	1 4:0 1	1 30 30	36	41	59 2	5.6	R 28		1	55.98		39	45.9	M
Dec. 11 20	3.7	30 30			59 2	2.8	R Dec. 7	5.8	3 3	55.80		39		R
- (Maj)							12	- 1			4	39	_	R
59		Taylor	543.				18	5 5.0	3	9 55.92		39	45.2	R
Nov. 26	5:4	1 33 2	2.25	127	8 4	3.4	м 68		Ta	ylor 58	7.			
27	5.2		2.32		8 4	2.5	M	3   5.	1	1 18.90		41 25	35.8	R
			b			<u>-</u>	— Dec. 13	1		1 18.88			38.1	
60	ŧ	3 Andre	omed w	τ				<u> </u>			·			
Nov. 22	5.4	1 33 29	2.85	50	2 2	9.3	м 69		Ę	5 Ceti	χ		_	
			2.80		2 2	28.9	R	,	,	13 35·52	1 1		25	0
Dec. 7							R Nov. 2	7			1 1	01 1	/ 2555777	7   M

3/

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean R Ascen 1878 h. m.	sion	No. of Wires.		n Postano 878.	e	Observer.	Num and Dat	1 1	Magnitude.	A.		sight sion 3.	No. of Wires.	D:	an P istan 1878	ce.	Observer.
70		2 Tric	inguli	a					79		11	3 P	isci	um a	2	nd.			
Dec. 11	3.6	1 46	7.64	l l	61	0	58.8	R	Nov.	22	3.9	1	55	43.73		87	49	32.7	M
12	3.6	46	7.71		01	1	0.3	B	Dec.	13	3.2		55	43.85			49	85.3	R
14	4.0	46	7.76			1	0.6			18	3.9		55	43.97			49	34.0	R
	<del></del> !			-				-		20	4.0		55	43.81			49	35.6	R
71	5	Arietis							80		*	1	, Fa	rnaci	ε.				
Dec. 21	4.6	1 46	50.18		71	18	18.5	R	Dec.	11	5.7	1	59	1.11		119	52	57.9	R
72	5	Arietis	γ² —	Nor	th.		-			21	5.7	_	59	1.16	•••			57.7	R
Dec. 20	4.6	1 46		r	71	18	<b>9</b> ·9	R	81			1	3 A	rietis	a				
	•			Δ.					Jan.	7	í I	2	0	17:83		67	6	56.2	м
73		0 A	lrietis	Þ						9		_	0	17:81		•	6	55.1	м
Jan. 5		1 47	54.13		69	47	22.0	M		10			0	17:91			6	56.6	M
7		47	54.17			47	21.4	M		11			0	17:78			6	55.1	M
8		47	<b>54</b> .00			47	22.1	м		14			0	17:78			6	56.0	M
9		47	54.14			47	21.5	м		15			0	17.74	•••		6	56.4	M
10		47	<b>54·0</b> 8			47	21.3	M	Nov.				0	18.04			6	54.4	M
Nov. 21		47	54.16	•••	İ	47	22.0	М	Dec.	7		}	0	17.78			6	54.3	R
26		47	54.08			47	22.2	1		14			0	17.83	•••		6	56.2	R
Dec. 13		47	54.03			47	21.3	1	l	28	•••		0	17.86			6	56.3	R
16		47	54.03			47	21.5	R		31	•••		<u> </u>	17.77			6	54.6	R
74		Tayl	or 62	9.					82			8	Tri	ingul	ίδ				
Dec. 7	5.0	1 48	45.46	1	136	54	1.7	R	Jan.	5		2	9	36.48		56	20	6.7	м
28	5.0	48	<b>45·4</b> 0			<b>54</b>	3.3	R		7			9	36.39			20	6.7	M
75		φP	hænic	is.					83				6'	7 Ceti.					
Dec. 18	5.0	1 49	18:21		133	5	46:	5 R	Nov.	15		2	10	53.77		96	59	5.3	м
		·								27		l	10	53.95		1	59	6.2	м
76		$\eta^1$	Hydi	i.						28			10	53.96			59	5.6	M
Dec. 31	7.5	1 49	29.82		158	32	45.8	3 R	Dec.	•			10	53.96			59	4.3	R
	1	,		1	1				1	11			10	53.82			59	4.8	R
77		Tay	110 <b>r</b> 6	46.				_		13				53.88	1		59	4.1	B
Nov. 27	5.5	1 52	19.80	1	137	58	54	4   м		21 31				53.83	1		59	4.3	R
28	5.2		19.80				53.		<b></b>	OI.	1		10	53.88	1	1	59	5.2	R
78		59	Ceti	υ					84		{ p.=			Hydr		(	٠.	40.0	1.
D. 13	1	( z	15.02	1	1,,,,	40	10.	۱.	Jan.		5.7	2		41.95		158		45.1	
Dec. 11	1		15:31	1	1		10°		1	9 10	6·0			41.88 42.04	1		24		
12	1	54	15.88	1	1	40	TT.	W R	1	10	9.9	1_	11	42'04	1	J	24	45.0	M

Number and Date.	Mean Right Ascension 1878.  h. m. s. 00	Mean Polar Distance 1878.	Number and Date.	Mean Right Ascension 1878.  h. m. s. N. N. N. N. N. N. N. N. N. N. N. N. N.
85	$\pi^2$ Hydri.		92	к Eridani.
Jan. 11 14 15	5·5   2 12 56·68   5·7   12 56·55   5·8   12 56·53	158 18 46·2   M 18 44·7   M 18 43·9   M	Dec. 20	4·6     2     22     30·90      138     15     7·5     R       5·0     22     30·70      15     6·2     R
16	5.7   12 56.61	18 46.3 м	93 Dec. 12 13	75 Ceti.  5.7   2 25 56.97     91 34 30.3   R 5.7   25 56.93     34 29.6   R
86 Nov. 26 Dec. 12	9 Persei i  5.6   2 13 51.37   5.2   13 51.42	34 42 48·4 M 42 50·0 R	94 Dec. 11	76 Ceti σ
14 18 20	5·3 13 51·40 5·3 13 51·34 5·4 13 51·21	42 50 0 R 42 47 1 R 42 48 6 R	Dec. 11 21 95	5·2   2 26 18·02     105 46 52·3   R 5·0   26 18·01     46 50·5   R 78 Ceti v
87	Taylor 798.	, , , , , , , , , , , , , , , , , , , ,	Nov. 22   28	4·7   2 20 28·88     84 56 24·4   M   4·9   29 28·80     56 24·1   M
Jan. 9 10 17	5·7         2         17         24·86            5·6         17         24·70            5·7         17         24·81	133 45 30·8 M 45 30·8 M 45 31·8 M	Dec. 7	5·0         29         28·42          56         22·9         B           5·0         29         28·49          56         24·0         n
88	Taylor 810.		96 Nov. 16 Dec. 13	81 Ceti.   2 31 33.06     93 55 31.8   m 5.7   31 33.00     55 31.6   R
Nov. 27 Dec. 13 21	5·6     2     18     37·08        5·7     18     36·92        5·8     18     36·98	141 38 58·2 M 38 59·2 R 38 56·8 R	97	η Horologii.
89	Radeliffe 706.		Dec. 12 21	5·7   2 33 22·80     143 4 19·2   R 5·7   33 22·75     4 17·6   R 83 Ceti \( \varepsilon \)
Jan. 5 7 8	4·5     2     19     1·96        4·4     19     2·10        4·5     19     2·07	23 8 50·3 M 8 50·9 M 8 51·0 M	98 Dec. 11	4·8   2 33 39·77     102 23 27·3   R
90	72 Ceti ρ		<b>99</b> Dec. 31	Taylor 906.
Dec. 7	5·0         2         20         3·25            5·2         20         3·24         4	102 50 29.5 R 50 29.9 R	100	13 Persei θ
91	73 Ceti §²		Dec. 20	35 Arietis.
Dec. 14 18 28	2 21 40 40 21 40 29 21 40 43	82 5 14.8 R 5 13.8 R 5 15.6 R	Dec. 7	4.5   2 36 17.78     62 48 45.8   R 4.5   36 17.69     48 47.6   R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.		an R scens 1878 m.	ight sion s.	No. of Wires.		n Postance 878.		Observer.	Num an Dat	a	Magnitude.		an R scens 1878	ion	No. of Wires.	Di	n Postan 1878.	ce	Observer.
102		86	Ceti	γ	2nd.					11:	L			6 E1	ridan	į.				
Jan. 4		2	36	58.82		87	16	45.7	M	Dec.	7	5.6	2	52	40.18	[	114	5	49.1	R
11	•••		36	58.79			16	47.1	M		14	6-0		<b>52</b>	40.12			5	52.0	R
14	•••		36	58.73			16	46.5	М				·					<u> </u>		-
17	•••		36	58.84			16	45.5	M	11	2		92	Ceti	a, M	enka	ır.			
Nov. 15 Dec. 28	•••		36 36	58·74 58·69			16 16	46·2	M	Jan.	4		2	55	54.07		86	23	23.3	М
Dec. 28	•••			90 09			70	40.1	R		14			55	54.25			23	21.3	М
103		1	Erio	lani ·	<sub>7-1</sub>					ł	15			55	54.18	•••		23	22.6	M
100		, -:								1	16 17			55	54.00			23	21.8	M
Dec. 11	4.8	2	39	24.61		109	5	23.5	R	Dec.				55 55	54·04 54·10	•••		23 23	23.3	M R
13	4.9		39	24.65			5	24.7	B	~~	21			55	54.10			23	22.2	R
704			30	Ariet						Ì	31			55	54.18			23	21.7	R.
104			<b>5</b> 0 .	AIIUU	<i>.</i>							<del></del>					!			
Dec. 12	4.6	2	40	38.77	1	61	15	41.1	R	11	3			23 I	Persei	γ				
21	4.1		40	38.75	···		15	38.8	R	Dec.	18	3.6	2	55	57.86		36	58	21.1	R
105			γ Ε	ornac	is.					11	4	<del>'</del>		0 E	ridani	. 03				
Dec. 14	6.0	2	44	26.70	١	115	3	45.8	R	Dec.		5.3		58	17:05	•	1 00		44.0	
20	5.8	-	44	26.67		110	3	46.2	ı	J 260.	12	5.4	۔ ا	58	16.97		98	4	44·1 44·8	R
	<del>!</del>	<u>-</u>			<u></u>				,	<b> </b>						L	!		37.0	
106		η	ı F	orna	cis.					11	5			27 1	Persei	κ				
Nov. 16	5.9	2	45	18.74	1	126	21	0.6	M	Dec	20		3	1	16.19		45	36	24.0	R
Dec. 28	5.2		45	18.78			21	1.5	1		28			1	15.91			36	23.6	n
107		<u></u>	Er.	idani	τ <sup>2</sup>					11	3			28	Persei	ω				
1		, -			,	1				Dec	. 13	5.3	1 3	3	25.08	1	50	51	11.4	R
Dec. 13	4.8	2		30.08	ı	111			1	1	18	5.1	1	3	24.96	1	"		10.9	R
21	4.6		45	30.11			30	26	3   R	_		<del>'</del>				-!				
108			$\eta^3$ )	Forna	cis.					1	l 7			R. I	P. L.	3 <b>3</b> .				
D 7	1	١.	45	41.0	- 1	1700	10		. 1	Jan			18	_		1	5	31		M
Dec. 7	5.7	2	40	44.67	1	126	10	43.	9   R		8		-	3		1		31		M
109			Lac	aille	943.					1	$\frac{10}{14}$	"		3 3	43·18	1		,	34·0 34·1	M
	1								1	De	. 7				42.86	1			32.9	M
Dec. 12	5.8	2	49	6.9	7	158	3 1	25	9 1		21	]			42.97	1			34·3	1
110			4.	Erida	ni.					1	18			57	Ariet	is δ	<u>'</u> -			1
Dec. 11	5.7	2	51	58.1	3	114	1 23	. 9	3   1		ı. 11		1:		39.30		70	) <u>4.</u> 4.	11.1	M
20	5.9	- 1		58.2	1	ì	21		- 1		15		- I		39.34		1		11.0	
4.1	5.6	1		58.0	- 1	1	21		- 1		c. 12	ı			39.2	- 1	}		10.1	

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Mean Right   Mean Polar   Distance   1878.   Mean Polar   Distance	Number and Date. By Mean Right Ascension 1878. by h. m. s. Number and Date.
119	95 Ceti.	128 Lacaille 1164.
Dec. 13	5·7   8 12 7·92     91 22 33·6   R 5·7   12 8·03     22 32·0   R	Dec. 7   5·8   3 29 36·28   5   156 54 12·4   R 28   5·6   29 36·37     54 12·9   R
120	96 Ceti κ¹	129 10 Tauri.
Dec. 31	3 12 57·80     87 4 41·7   R	Dec. 11   5·0   3 30 38·87     89 59 10·0   R   14   4·8   30 38·84     59 11·7   R
121	15 Eridani.	18   4·5   30 38·79     59 10·8 R
Dec. 21	3 12 58·35     112 57 28·2   R	130 22 Eridani.
122	e Eridani.	Dec. 21   5·6   3 34 35·88     95 36 19·6   R 31   6·0   34 35·97     36 21·5   R
Dec. 12 28	4·6   3 15 3·59     133 32 15·3   R 4·6   15 3·61     32 14·4   R	131 40 Persei o
123	Radeliffe 956.	Dec. 28     3 36 40·15     58 6 0·0   R
Dec. 11	4·3   3 19 11·87     30 29 12·6   R	132 25 Tauri η, Aleyone.
18	4·3   19 11·90     29 12·6   R	Jan. 16 3 40 14·01 66 16 27·2 м 17 40 14·03 16 26·1 м
124	Radcliffe 969.	18 40 14·12 16 25·0 M
Dec. 12	5.4 3 20 44-11 34 58 18.2 R	22 40 14 02 16 26 3 м
125	35 Persei σ	23 40 14 03 16 27 6 m 24 40 14 04 16 27 1 m 26 40 14 02 16 27 7 m
Dec. 14	3 21 58 59     42 25 40 0   n	133 28 Tauri, Pleione.
126	R. P. L. 34.	Dec. 21   5.6   3 41 55.66     66 14 13.7   n
Jan. 18 22	3 26 42·25 2 3 44 27·0 M 26 41·65 3 44 29·1 M	134 44 Persei ζ
26	26 42·11   3   44 30·0   M	Dec. 14   3·6   3 · 46 · 27·82     58 · 28 · 50·1   R
	R. P. L. 34—s.p.	135 32 Eridani—South.
July 9	3 26 42 21   3   3 44 30 8   c.	Dec. 20   5·0   3 48 9·78     93 19 1·3   R 31   5·0   48 9·84     18 59·9   R
127	37 Persei ↓	
Dec. 13	3 27 49·23     42 12 52·1   R   27 49·18     12 51·4   R	136 v <sup>3</sup> Eridani.  Dec. 11   5·2   3 49 0·03     125 5 39·5   R
1	' '	

42.32

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	asion 8.	No. of Wires.	ean P Dista 1878	ace	Observer.	Numi and Dat	1	Magnitude.	Αs	an F cens 1878 m.		No. of Wires.	D	an P istar 1878	100	Observer.
137		45	Per <b>s</b> ei	€				14	5	Ŋ	r H	orol	logii—	-1 <i>st</i>				
Dec. 21	3.6	3 49	40.02	50	20	39.2	R	Dec.	28	5.2	4	15	24.71	]	134	33	40.3	R
138		34 Er	idani	$\gamma^1$				14	6			9 R	eticul	i.				
Jan. 16 }		3 52	20:32	108	51	25.9	м	Jan.	19	5.2	4	16	19.07		153	33	9.7	м
21		52	20.27		51	24.1	м		22	5.5			18.77			33	7.9	M
22		52	20.26		51	24.4	м		23	5.8		16	18.92			33	8.7	M
23		52	20.20		51	23.9	м	Feb.	5	5.0		16	18.92			33	7.2	R
24		52	20.18		51	25.3	M	1	6	5.0		16	18.98			33	7.3	R
26		52	20.15		51	26.0	M			<u> </u>			!					
28		52	20.13		51	24.6	M	14	7			74 ′	Tauri	€				
29		52	20.19	}	51	24.1	M			( )	ı							,
							ــــــــــــــــــــــــــــــــــــــ	Jan.			4	21	29.59	•••	71	5	31.2	M
139		36 Er	ridani	$ au^9$				1	28			21	29.66	•••		5	32.3	M
								ł	29			21	29.52	•…		5	31.2	M
Dec. 14	·	3 54	48.26	4 11	4 21	48.5	R	1	30	1		21	29.51	•••		5	31.8	M
							<del>'</del>		31			21	29.20	•••		5	31.2	M
140		38	Tauri	ν				Feb.	_			21	29.54	•••		5	31.0	R
_ 1	1	h .	1	. ,			,		5			21	29.61	•••		5	30.5	R
Dec. 21	5.1	3 56	39.97	8	4 21	0.8	R							Λο.				
		ם מ	P. L. 3	=				14	:8		. 1	8 7	Cauri	<i>0</i> =			7	
141		n. I	. L. S	5,				Dec.	. 28		4	21	41 42		74	24	<del>10</del> -1	R.
Dec. 28	١	3 58	48.84	3	4 46	9.4	R	<b> </b>		<u>`                                      </u>	<u>'</u>				<u> </u>			·
	1	1					1	14	9			δ	Cæli.					
		R. P.	L.35-	-s.p.				Jan.	17	5.2	1 4	07	C-1/4	ì	1.00	10	1.0	
		,						ł	-	1	*	27	6.21		135	13	1.6	M
		3 58	49.68	5	4 46	12.3	c. I		18	5.4	ł	27	6.19			13	0.9	M
July 13							1		22	5.4	1	27	6.18		ļ	12	58.6	M
July 13	!	<u> </u>		·				771.7.	7	F.0	1	0#	0.74	ŀ	i		0.0	R
July 13 142	<u> </u>	<u> </u>	ridani'	o <sup>1</sup>				Feb.		5.0		27	6.14			13		-
142	1	38 E						Feb.	. 1	5·0 5·0		27 27	6·14 6·19			12	58.8	R
		38 E	ridani 54.60		7 9	22.7	7   м	-	2	5.0	Tour	27	6,19					-
<b>142</b> Jan. 25		38 E	54:60	9	7 9	22.7	7   м	-		5.0	Tai	27			ran.			-
142		38 E		9	7 9	22.7	7   м	1!	2 50	5.0	Tai	27 ıri	6·19 a, Ala		1	12	58.8	R
<b>142</b> Jan. 25	4:6	38 E	Persei	$\frac{  }{\mu}$				1! Jan	2 5 <b>0</b> . 30	5.0		27 <i>tri</i>	6·19 a, Ala 55·30	leba	ran.	12 44	58·8 17·2	R
142 Jan. 25 143 Dec. 20	4:6	38 E  4 5  51	54·60 Persei	$\mu$	1 54	10.4	l R	1!	2 50 . 30 . 6	87		27 <i>tri</i> 28 28	6.19 a, Ala 55.30 55.28	  eba   	1	12 44 44	58·8 17·2 14·6	M R
142 Jan. 25		38 E  4 5  51	Persei	$\mu$		10.4		1! Jan	2 5 <b>0</b> . 30	5.0		27 <i>tri</i> 28 28	6·19 a, Ala 55·30	  eba   	1	12 44 44	58·8 17·2	M R
142 Jan. 25 143 Dec. 20	4:6	38 E  4 5  51  4 5 5	54·60 Persei	$\begin{array}{c c} & \dots & 9 \\ \hline \mu & & \\ & & 3 & 4 \\ & \dots & & \end{array}$	1 54	10.4	l R	Jan Feb	2 50 . 30 . 6	87		27 <i>tri</i> 28 28 28	6.19 a, Ala 55.30 55.28	leba     	1	12 44 44	58·8 17·2 14·6	M R
142 Jan. 25 143 Dec. 20 28	4.6	38 E    4 5    51    4 5    5 8 E	Fersei 56.42 56.47 Horolog	$\frac{ \dots }{\mu}$ $\frac{ 3 }{ \dots }$ $\overline{ii}$	1 54 54	10.4	R	Jan. Feb	2 50 . 30 . 6 . 8	87	4	27 17i 28 28 28 28	6·19 a, Ala 55·30 55·28 55·27 Cæli	   eba   	73	12 44 44 44	58·8 17·2 14·6 15·5	M R R
142 Jan. 25 143 Dec. 20 28 144 Jan. 17	4.6	38 E  4 5  51  4 5  8 I	54:60  Persei 56:42 56:47  Horolog	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1 54 54 32 18	10·4 8·8	R R	Jan Feb	2 50 . 30 . 6 . 8	87 5·2	4	27  ri 28 28 28 28	6·19 a, Alc 55·30 55·28 55·27 Cæli 44·78	   eba   	73	12 44 44 44 23	58·8 17·2 14·6 15·5	M R R
142 Jan. 25 143 Dec. 20 28 144 Jan. 17 18	4·6 4·6 5·0 5·0	38 E  38 E  51  51  4 5  5 F  6 F	54:60  Persei 56:42 56:47  Horolog 44:45 44:19	$\begin{array}{c c} & & & & & \\ \mu & & & \\ \hline \mu & & & \\ & & & \\ \hline & & & \\ \hline ii. & & \\ \hline & & & \\ \hline \end{array}$	1 54 54 32 18	3 48 46 3 46 3 46 3 46 3 46 3 46 3 46 3	R R R R R R R R R R R R R R R R R R R	Jan Feb	2 50 . 30 . 6 . 8 51 . 18 . 23	87 5-2 5-5	4	27 uri 28 28 28 28 6 37 37	6·19 a, Ala 55·30 55·28 55·27 3 Cæli 44·73 44·53	 leba     	73	12 44 44 44 44 23 23	58·8 17·2 14·6 15·5	M R R
142 Jan. 25 143 Dec. 20 28 144 Jan. 17	4.6	38 E  4 5  51  4 5  8 I  4 6 6	54:60  Persei 56:42 56:47  Horolog	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1 54 54 32 18 18	10·4 8·8	R R R R R R R R R R R R R R R R R R R	Jan Feb	2 50 . 30 . 6 . 8	87 5·2	4	27  ri 28 28 28 28	6·19 a, Alc 55·30 55·28 55·27 Cæli 44·78 44·53 44·64	     	73	12 44 44 44 23	58·8 17·2 14·6 15·5	M R R

1	_																		
Number and Date.	Magnitude.	Asc 1	n Right ension 878.	No. of Wires.	D	an I ista 1878		Observer.	Num an Da	d	Magnitude.	M A	-8001	Right usion 78.	No. of Wires.	MI	ean Dista 187	Polar ince 78.	Observer.
152		λ	Pictori	s.					15	8			ß.	Menso	e.	• • •			
Jan. 22	5.0	4 39	98.38		140	42	41.2	M	Jan.	26	5.7	1 5	4	18:48	5	161	28	==.4	1
26	5.3	39	9 39·0 <b>3</b>			42	43.2	M	"	28	5.8	"	4	18.42	1	101	28 28		8
28	5.4	39	9 38.95			42	41.3	M		29	5.7		4	18.31			28	-	
Feb. 2	5.0	39				42	40.3	R	Feb.	6	5.8		4	18:33	3	1	28		
5	5.0	39	38.04			42	40.9	R		8	5.5		4	18:43			28	55.0	R
														• (1 . (6)	:			***** j)	
153		κ	Dorad û	s.					159	9	1	.9 0	rior	is β,	Rig	el.			
Jan. 24	5.2	4 42	30.96		149	57	26.8	M	Feb.	11		5	8	40.42		98	20	37.0	3E
	-1	4 - 2		. '						13		!	8	40.54			20	38.1	R
154		3.	Aurigæ	ι						19			8	40.44			20	37.9	R
			3.5					1						- 1-1					
Jan. 29		4 49		j	57	1	·FF-3	M	160	)		o	Co	lumb	æ.				
31		49		• • •		1	44.8	M											
Feb. 4		49	2.88			1	43.5	R	1	23	5.0	5	13	5.02		125	0	57.9	M
7	•••	-19	2.94			l	42.4	R		24	5.0		13	5.18	•••		0	53.9	М
9		49 49	2.06			1	43.4	R		25	5.3		13	5.13			0	56.8	M
" I			3.06			1	43.6	II.	Feb.	4	5.0		13	5.24	•••		0	56.3	R
										7	5.0	(*************************************	13	5.12	•••		0	57.1	R
155		$\boldsymbol{\gamma}^1$	Cæli.									,	מנ						
Jan. 17	51	5 0	1:35	1	125	39	3.6		161			C	J D	oradí	S.				
18	5.0	0	1.17			39	2.8	M	Jan.	16	5.0	5	13	51:47		157	19	25.6	M
23	5.4	0				39	3.7	M	:	26	5.1		13	51 51			19	22.9	M
Feb. 1	5.0	0	2			39	4.5	R		28	5.0		13	51.53	.,.		19	22.8	M
-1.	5.0	0	1.19			39	3.4	R	Feb.	5	5.0		13	51:57			19	22.2	R
	· · · · · · · · · · · · · · · · · · ·			,						6	5.0		13	51.52			19	22.3	R
156		γ'	<sup>2</sup> Cæli.					- 1			·							on leading	
Jan. 22	5.8	5 ()	4.81	1	25 5	i2 :	33:3	м	162			ζ	Pic	ctoris					
2.1	5.7	()	1.86		•1	32	34:3	м	I 0	a 1	n l				i			i	l II
25	5.6	()	4.94	!	ñ	2 :	34.5	М	Jan. 2	- 1	5.3			22.50		140	44	14.9	M
Feb. 2	5.5	0	4-96		.5	3 :	32.4	R.	3	- 1	5.6			22·52 22·72				17.0	М
5	5.2	O	5.03		5	2 ;	33.1	R	Feb.		50			22.53				16.8	M
									1	- 1	5.0			22.57				14.0 14.2	R
157		2 Le	poris e					ŀ									. In M	142	R
Jan. 30	5		. 1		12 3	·) 1	0.4	M	163			11	2 7	auri ,	В				
31			17 83		3			M	Jan. 19	1 0	[	<b>5</b> 1	g e	4.74	٠,	01	00	-01	
Feb. 11					3:			R	21						1	61			M
12			17.71		39		1	R	Feb.	- 1				4.84				51·3 52·0	M
15			17.77	- 1	3		1	R	5	- 1				4.86					R
	90 00							,						200	]		ا ل	JU 48	R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	sion	No. of Wires.	D:	an P ista 1878		Observer.	Nun ar Da	ıd	Magnitude.	M.	Авсе	Right nsion 78.	No. of Wires.	M.	ean : Dista 187		Observer.
164		κΙ	Pictoris	3.					17	0		39 <i>C</i>	Prio	nis λ	1:	st.			
Jan. 18	5.5	5 20	7.50		146	7.4	ra.a		Jan.	26	4.0	5	28	25.03	١	80	8	58.0	M
Feb. 4	5.0	20	7.48	•••	140	14 14	56.6 58.7	M		30	4.0		28	25.11	1		8	56.3	1
: 5	5.0	20	7.47	•••		14	58.9	R R	Feb.	2	4.0		28	25.18			8	57.0	4
7	5.0	20	7:44			14	55.8	R		6	4.0		28	25.02			8	55.9	1
12	5.0	20	7:47			14	56.2	R		11	4.0		28	24.91			8	57:0	R
165		A Diet	oris—2	) <i>-</i> 7	<u>'</u>			_	17	1		4	L6 (	Orioni	sε				<u>'</u>
165		U FIGU	oris—2	ana.	•				Feb.	12		5	30	1.35	١	91	16	53.0	(R
Jan. 24	6.0	5 22	0.31	[	142	25	22.1	M		16			30	1.36		1	16	51.6	1
Feb. 8	5.3	22	0.38			25	24.3	R.		20	•••		30	1.24			16	51.9	R
13	5.5	22	0.33			25	22.9	R.		_			_			<del>'</del>			
14	5.2	22	0.18			25	24.0	R.	17	2		40	Or	ionis	$\phi^2$				
15	5.5	22	0.24			25	23.4	R	Jan.		4.8	5	30	12.15		80	46	36.3	M
			<u> </u>					_	Feb.	-	4.2		30	12.19			46	37.6	R
166		R. $I$	. L. 4	Ю.						9	4.5		30	12.02			46	37:0	R
Jan. 29	1	l = 00	a 1	- 1	,			,		13	4.5		30	12.04		ļ	46	86· <b>5</b>	R
Jan. 29 31		5 23	3.79	3	4	52	14.2	M		15	4.2		30	12.19		J	46	36.0	R
Feb. 9		23	3.84	3		52	14.2	М	7 100				Δ.	7 7		·			
16		23	4.41	3		52	15.1	R	17:		1	a '	O0	lumbe	æ.				
20		23	4.69	3		52 52	13·8 14·2	R	Jan.		•••	5		13.79		124	8	24.3	M
·	1						14.2	R.	Mar.	5		<u> </u>	35	13.97	<u></u>	<u> </u>	8	23·1	M
		R. P.	<b>L. 4</b> 0–	-s.p	) <b>.</b>				174			. 1	4 L	eporis	ξ				
Aug. 19	1	5 23	3.81	ا ه				,	Jan.	22		5	41	25 <sup>.</sup> 53		104	52	6.7	M
		0 20	9 91	3	4	52	14.7	R.		25			41	25.41			52	5.9	m
									Feb.	28 1	•		41	25.62			<b>52</b>	7.0	M
167	3	4 Orion	is δ, V	ar.	1.				ren.	4			41	25.71			<b>5</b> 2	6.9	R
Feb. 5	}	5 25	46:43		90	23	24.5	R			•••		41	25.60	•••		52	6.3	R
21		25	46.47			23	25.5	R	17	5		μ	C	lumb	æ.				
									Jan.		5.2	5	41	27.95	[	122	21	15.6	MC
168		11 <i>L</i>	eporis	α					777	26	5.4		41	27.75			21	16.0	м
Feb. 14	1	5 27	20.96	1	10-	٠.	aa !		Feb.	2	5.4		41	27.71			21	14.0	R
	<u></u>	0 2/	20 90	•••	107	<b>ə</b> 4	38.5	R		5 6 ·	5·5 5·5			27.79	•••			15.3	R
169		ያ <b>ን</b> ለ	miow in	<b>1</b> 1							0.0		41	27.70	•••		21	14.0	R
	1		rionis	φ.					176	3		F	3 P	ictori	s.				
Jan. 23	4·6 4·6	5 28		•••	80		42.2	M	Jan.	24	4.4	5	44	23.98		141	ß	40.6	35
95	( 44°D)	28		•••			38.2	М		31	4.6			23.94		727		41.1	M M
25 Feb. 1	1	90	السمريوز	,															.m. 1
Feb. 1	4.5	28 28					40.2	R	Feb.		4.2		44	23.89	3				- 8
	1	28 28 28	7.43			35	40·2 39·2 39·9	R R		7 9 11	4·5 4·5 4·5				3 	×	6	40·4 42·8	R B

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	sion	No. of Wires.		an I istar 1878		Observer.	Number and Date.	Magnitude.	Mean I Ascer 187	sion	No. of Wires.	D	an P istan 1878	olar ice	Observer.
177		δ D	orad û	s.					182		$\epsilon D$	oradû	s.				
		(		,					Jan. 26	5.2	5 50	1.20		156	55	55.2	м
Jan. 29	4.4	5 44	33.48		155	46	52.8	M	28	5.2	50	1.23		1	55	54.3	M
Feb. 8	4·5 4·5	44	33·35 33·43			46 46	54·1 56·5	R	Feb. 11	2.0	50	1.43			55	52.9	R
14	4.5	44	33.36			46	59.1	R	12	5.0	50	1.42			55	55.7	R
16	4.5	44	33.32			46	54.6	R	14	2.0	50	1.48	<u></u>		55	53.2	R
	1							!	183		61 <i>(</i>	Prionis	sμ				
178		15 <i>I</i>	cporis	δε					Jan. 22	5.2	5 55	40.21		80	21	15.2	М
Jan. 30	1	5 46	4.31	١	110	53	27.4	M	29	5.0	55	40.34		1	21	14.3	м
Feb. 4		46	4.47		]	53	24.7	R	Feb. 1	5.0	55	40.47		l	21	15.2	R
6		46	4.53			53	24.0	R	2	5.0	<b>5</b> 5	40.33		[	21	13.9	R
13		46	4.40			53	25.6	R	5	5.0	55	40.44			21	14.6	R
15		46	4.23			53	25.2	R					40				
		The second							184		R. $I$	). L.	43. `				
179		γ Ρ	ictori	s.					Feb. 4 6		5 58 58	14.66 15.51	3	3	14 14	15·4 15·0	R R
Feb. 1	4.5	5 47	36.78	l	146	11	52.0	12	13		58	14.51	3		14	16.6	R
5	4.5	47	36.77			11.	50.9	R	25		58	14.57	3		14	14.0	R
19	4.6	47	36.71		Ì	11	51.5	R		1	1		1	1			
Mar. 4	4.8	47	36.69			11	51.8	M			R. P.	r. 43-	<b>—s</b> :	n.			
5		47	36.86		}	11	52.4	М				J. 10					
	·			·					Aug 15		5 58	18.62	3	3	14	12.8	R
180	58 <i>0r</i>	ionis a	, Var	. 2,	Bete	lgeu	x.		185		67 <i>C</i>	rionis	υ				
Jan. 18		5 48	34.16		82	37	2.1	М	Feb. 2	١	6 0	36.36	۱	75	13	5.2	R
19		48	34.07			37	1.0	М	20		0	36.48		"	13	4.1	R
Feb. 9		48	33.04			37	6.9	R	22		0	36.36			13	5.3	R
Mar. 6		48	33.00		l	37	0.9	M	26	l	0	36.40		1	13	5.0	R
7		18	34.11		ŀ	37	1.5	M	Mar. 2		0	36.42		1	13	5.8	R
8 9		48	34·05 34·06		ĺ	37	0.1	M	11		0	36.47		ĺ	13	7.4	M
12		48 48	22.05			37	1.6	M M	12		0	36.40			13	6.6	M
	<u> </u>	1 10	33.95		<u> </u>	37	0:5	l M	13		0	36.48			13	6.6	M
		λί	oluml	bæ.					186		18 <i>I</i>	Lepori	sθ				
181				,	1 130	49	43.9	М	Jan. 23	4.6	6 0	37:98	1	104	55	33.7	м
<b>181</b> Jan. 31	5.2	5 48	40.94		120	4				1	1			1			
	5.0	1	40 <sup>.</sup> 94 41 <sup>.</sup> 08	1	120	49	44.8	R	Fob. 7	4.5	0	38.04		1	55	31.3	R
Jan. 31	1	48			120			R	Fob. 7 9	4·5 4·6	1	38·04 38·09				31·3 30·2	R
Jan. 31 Feb. 2	5.0	48 48 48	41.08		125	49	44.8 44.8	1		1	1	38:09			55		1

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	As		ight sion s.	No. of Wires.	Di	n Postano 1878.	e l	Observer.	Number and Date.	Magnitude.		an R scens 1878 m.	ion	No. of Wires.	Di	n Postano 1878.		Observer.
187		$\pi^1$	Co	olumb	æ.					193	****		v Do	rad û	s.				
Jan. 25	5.6	6	2	54.86		132	17	3.7	M	Feb. 5	5.6	6	9	31 1 4	١	158	49	0.6	R
. 80	5.7		2	54.69			17	2.8	M	12	5.2		9	31·10			49	0.3	R
Feb. 5	5.7		2	54.80			17	1:2	B	19	5.2		9	31.27			49	1.7	R
8	5.6		2	54.81			17	3.5	R	Mar. 11	5.7	1	9	31.19		-	49	1.8	М
11	5.7		2	54-72	•••		17	3.3	R				2 n		1.				
188		θ	Co	lumb	æ.					194		7	ע יין	orad	us.	,			
Jan. 28	5.4	1 6	3	20-64		(197	14	17:0	1	Jan. 23	5.2	6	10	59.55	.:.	155	33	40.5	M
31	5.3	"	3	20 04		127	14 14	11·8 10·0	м	24	5.4		10	59.66			33	39.9	М
Feb. 12	5.0		3	20.68		1	14	6.9	R	31	5.3		10	59.51			33	39.9	M
18	5.0		3	20.61		1	14	7.9	R	Feb. 1	5.2		10	59.72		1	33	39.8	R
21	5.0		3	20.62			14	9.2	I	11	5.6		10	59.59		<u> </u>	33 	39.1	R
189		π	2 (	Colum	bæ.	<u>'</u>				195		,	к Со	lumb	æ.				
T 00		١٠			1	1 700	_	۰.	(	Jan. 21	4.6	6	12	12.84		125	6	3.2	M
Jan. 26 Feb. 13	5·4 5·5	6	4	5·71 5·58		132	8 8	9.5		25	4.4		12	12.60			6	3.2	M
16	5.6		4	5·50			8	8·4 8·4		29	4.6		12	12.62	<b></b>		6	4.0	M
19	5.2		4	5.20		İ	8	6.8	1	Feb. 2	4.5		12	1 <b>2</b> ·52			6	5.2	R
Mar. 5	5.9		4	5.73			8	8.3	1	9	4.6	$\perp$	12	12.62		1	6	3.5	R
190	<del></del>	70	0 0	rionis	<u>-</u> ع ج	1			1	196		13	Gen	ninor	um	μ			
	1	ا ا			,	1 .				Jan. 19	١	6	15	34.87	1	67	25	35.3	M
Jan. 22	•••	6	5	0.14	1	75	45	57.1	1	22			15	34.71			25	33.6	M
29 Feb. 1			5 5	0.04			45	56.5		28			15	34.77	' \		25	33.2	M
4			5	0·27 0·09	1		45	56.1		Feb. 6			15	34.81	ı		25	31 .9	R
6			5	0.30	1	1	45 45	55 · 8	1	7			lã	34.8	3		25	33.1	R
	-		_		1			030 (		8			15	34.8	1		25	32.5	R
191		4	4 4	<i>Aurige</i>	æκ					13			15	34.7	- (	. [	25	32.2	R
	1	r		-	1				,	14	1		15		1	i	25	32.2	1
Feb. 7	4.0	6	7	36.20	ł	60	-		1	21			15 15		- 1	1	25 25	31·8 31·7	1
9	4.2		7	36.33	1	1	27	29	1	27	"		15				25 25	31.2	R
14 Mon 4	4.0		7	36:14	1	1	27		1	Mar. 13	}			34.7	- 1		25 25	33.9	1
Mar. 4	4.4			36·29		i	27				1				-	1			
	- 49 5			· 90 41	0	. }		32.	2   14	197		λ	Can	is Mo	ijori	s.			
192		5	Мо	nocer	otis					Feb. 1	4.	1		38.9		,	2 20	16.1	R
Feb. 8	4.6	6	8	54.55	2	. 9	3 14	l 19·	6   E	B .	1	1		38.8	t	1	30 30		í
13	4.5			<b>54</b> ·30	1	1	14			1		١.	. 23		•	1	30		1
15	4.5			54.4		.	14	19.	- 1		1	1	28		- 1	1	30		1
18	4.5			54.40		. ]	14			Mar.	•	1	23		- 1	1	30		ı
Mar. 8	4.6		8	54.36	3	.	14	19.	7 ] A	: 1 2	5.	0	23		i			16.0	

Separate Results of Madras Meridian Circle Observations in 1878.

Numb and Date	. }	Magnitude.			Right sion 8.	No. of Wires.	D	n Poistar 1878.	ice	Observer.	Number and Date.	Magnitude.		ean I scen 187		No. of Wires.	Di	n Po stan 1878	ce	Observer.
198	3		7	τ¹ ]	Dorad	rîs.					Feb. 11		6	30	39.94		73	29	53.0	R
Feb.	4	5.2	6	23	47:48	į	159	55	0.1	R	15			30 30	39·80 39·78	•••		29 29	54·3 54·0	R
ren.	7	5.5	l o	23	47.52	····	100	54	59.6	R	16 18			30	30.83			29	55.2	R
	9	5.6		23	47.40		1	54	57.2	R	22			30	39.78			29	54.1	R
	16	5.6	ļ	23	17 48			55	1.9	n	28		ĺ	30	39.83			29	53.3	R
Mar,	4	5.7		23	47.61		1	55	1.4	M	Mar. 1			30	39.76			29	54.3	
199				-2 7	Dorad		<u> </u>			<u></u>	204	1	7 (4		Мајо		,,2			
										ı					-	,				,
Feb.	8	5.2	6	26	30.91		159	37	18.1	R	Feb. 13		6	31	21.57		109	9	10.3	i
	12	5.5		26	30.92			37	14.5	R	14			31	21.65			9	10.2	l
	14	5.5		26	31.12			37	18:4	R	Mar. 13			31	21.63			9	10.3	
Mar.	7 9	5·7 5·8		26 26	30·99 31·12			37 37	15·2 15·4	M M	15	J		31	21.62			9	10.0	М
	.,		1		• •				70 4		205	;	3 <i>C</i> a	nis	Major	ris 1	,3			
200	)	4	- Ca	nis	Majo	ris i	<b>£</b> 1				Feb. 6	۱	1 6	32	31.20	Í	108	7	57.6	R
Feb.	6	l	6	26	46.34	l	1113	19	54.4	R	12		"	32	31 43		100	7	57.8	R
	11		-	26	46.23			19	55:3	R	Mar. 5		1	32	31:45		}	7	57.2	М
	13			26	46:32		1.	19	54.3	я	6		1	32	31.47		}	7	58.1	31
Mar.	5			26	46.49		1	19	55.0	M		!	_/			1				<u>!</u>
	6			26	46.39			19	54.9	М	206		7	Tay l	or 26:	33.				
201	L	.5	Ca	nis	Мајо	ris į	£2				Feb. 2	5.0	6	35	22.64		138	6	40.6	i
171.	~	F.00	1 6	00	56:53	1	1110	50	0.0	1	8 9	5.0		35 35	22:57 22:53			6 6	43·2 41·0	R
Feb.	5 9	5.0	0	29 29	56°58		112	52 52	9°3 7°4	R	Mar. 2	5.0		35	22 45			6	41.8	1
	21	5.0		29	56.68			52	9.2	R	4	5.0		35	22 74			6	42.4	1
Mar.	2	5.0		29	56.78			52	9.7	R		1				1		Ĭ		1
2.2	8	5.3		29	56.72			52	9.8	M	207		La	ılan	de 12	863.				
											Jan. 23	7:4	6	35	26.40	l	83	32	25.9	М
202	2			$\mu$ !	ictor	8.					26	7.7		35	26.14			32	25.8	
Feb.	7	5.2	6	30	9.03		1:48	39	43.7	R	000		' 11 C	2 7/1/2	nocer	oti c	·		o a to aman'n asu	<u> </u>
	19	5.2		30	9.04		1	39	43.4	R	208									
	20	5.2		30	8.95			39	41.8	R	Feb. 1	1	6		30.18	1	87	-	21.0	1
Mar.		5.6		30	9.26	1			45.7	M	4	5.0			30.50	1		27	20.0	1
	12	5.4		3()	9.23	<u> </u>	]	39	42.2	M	6	5.0	į	41	30.03	1	1	27	18.9	1
20:	3		24	Gei	ninor	um	γ				11 Mar. 7	5·3		41	29·97 29·98	1		27 27	19·5 21·2	1
Jan.		١			39.73			29	55.4	{ м	209		, 51	Cen	hei (1		' ).			<u>′</u>
	26				39.85	1	1		57.5	M	203			C.UJO	.,,,,					
		1	i	90	39.87	1	1	29	54.7	R	Mar. 9	1	6	42	46.03	3	2	46	5.1	м
Feb.	1			30	39 07		1		-				1 -		46.23		l .	46		

Separate Results of Madras Meridian Circle Observations in 1878.

	Numb and Date	- [	Magnitude.		an lacens 1878		No. of Wires.		n Postanc 878.	lar e	Observer.	Number and Date.	Magnitude.		ean Facens		No. of Wires.	Di	n Postano 878.		Observer.
	233	3		γγ	ola	ntis—	-2nd					239			$\kappa^3$ ]	Риррі	s.				
1	Feb.	21	5.0	7	9	46.42		160	18	4.8	R				-	- ssp ps	,				
	•	26	5.0	1	9	46.62			18	2.7	R	Feb. 20	5.0	7	25	58.04		120	42	23.1	R
11		27	5.0		9	46.67			18	2.9	R	22	5.0		25	58.16	•••		42	24.3	R
	Mar.	27	5:0	1	9	46.44	·		18	1.0	М	25	5.0		25	58.03			<b>42</b>	24.0	R
		28	5.0		9	46.63			18	4.7	M	Mar. 2	5.0		25	58.11	• • •		42	23.6	R
-	234		·	30	Can	is Ma	inric	•		<u>'</u>	_	5	5.2		25	58.02	•••		42	24.9	М
1			ı	ŧ						1											
	Feb.	2	•••	7	13	38.91		114	43	56.2	R	240	66 <i>(</i>	Gem	inor	um a	2, C	astor	۴.		
		9		1	13	38.75			43	56.6	R										
1		13	•		13	38 87	•••		43	56.9	R	Feb. 4		7	26	48.91		57	50	44.1	R
-	Mar.	8			13	39.00	•••		43	56.7	M	9			26	48.86	<b> </b>		50	44.4	R
		9			13	39.01			<del>4</del> 3	56.1	M	14	,		26	48.89		ł	50	43.6	R
		_		r	1 T	000	00					18	<b> </b>		26	48.83			50	45.4	R
H	235	5		. 1	ауі	or 298	52.					Mar. 18	l		26	48.80			50	44.7	M
	Feb.	4	5.0	7	14	24.06		128	59	17.0	R	19	١		26	48.77			50	45.1	М
1		5	5.0	Ì	14	24.00			<b>5</b> 9	17.3	R	20		}	26	48.90			<b>5</b> 0	45.5	M
1		15	5.0		14	23.84			<b>5</b> 9	15.5	R	21	l	ì	26	48.88			50	45.0	м
	Mar.	11	5.0		14	23.90			59	17.2	M	22		Ì	26	48.84			50	45.7	м
1		14	5.4		14	23.88			59	16.6	M	23			26	48.91			50	45.4	M
1			1	<del>'</del>								25			26	49.04			50	42.1	м
	23	6			δν	olanti	s.					26			26	48.98			50	44.9	M
	Feb.	17	5.0	1 7	16	52.92	1	157	44	1.7	R	27		1	26	48.92	١	Ì	50	45.5	м
1	100.	12	5.0	1'	16	52.88		10.	44	2.6	R	28			26	48.89		1	50	45.5	M
		14	5.0	Ì	16	53.12	1	1	44	1.1	R	29		1	26	49.06			50	46.1	м
		18	5.0		16	53.09	•••		44	3.7	R	30			26	48.72			50	44.4	M
-	Mar.		5.0	1	16	52.98			44	2.9	R		1					<del>'</del>			
	1,101.	2	5 0		16				44	1.7	R										
-			0 0				!	l	~			241			$n^1$	Pupp	is.				
	23	7		62	Ger	minor	um į	9				Feb. 19	4.5	1 -	00	0.40	}	1110	7.0	90.0	
-	Feb.	2	1	1 7	21	15.60	{	57	58	27:9	R	26		7		9.42		113	12	30.6	R
	_ 0.0.	5		'	21	15.69		5/	58	27.9	1		4.5		29	9.26	•••		12	32.1	R
		7			21	15.72			58	28.1	R	Mar. 9	5.1		29	9.33		1	12	31.4	М
	Mar.	•	1		21	15.73		1	58	28.0	R	11	5.0		29	9.30		1	12	32.7	М
	mai.	6				15.77				27.6		12	5.3		29	9:38		1	12	32.1	M
-			1					1			1	949			<sub>n</sub> 2	Puppi	e				
	23		ſ		_	<i>lor</i> 30						242			, , ,	- արք					
-	Feb.		2.0	7		22-25		121		19.8		Feb. 21	6.0	1 2	29	10.12		113	12	34.2	R
		19	2.0			22-48		1	12			27	5.0		29	9.91	.	1	12		
		21	2.0			22.31			12			Mar. 8	6.0		29	9.84	·			34.4	
	Mar.	1	5.0			22:46		1	12	19.0	R	13	6.1		29			1	12		1
		7	5.2		24	22.59	·		12	19:6	M	14	6.0		29		1			35.6	1

Separate Results of Madras Meridian Circle Observations in 1878.

Num' and Dat	d	Magnitude.				No of Wires.	$\mathbf{D}$	an P istar 1878		Observer.	Number and Date.	Magnitude.	h.	ean Asce 187		No. of Wires.		an F istan 1878		Observer.
24:	3			$\boldsymbol{g}$	Puppi	s.					249			3 2	Puppi	٤,				
Feb.	22	5.0	7	29	27:19	<b> </b>	115	51	1.8	R	Feb. 20	5.0	7	38	54.57	1	118	39	50.2	R
	25	5.0		29	27.12			51	1.7	R	25	5.0		38	54.67			39	52.0	R
	28	5.0		29	27.13			51	0.2	R	Mar. 5	5.4		38	54.74			39	51.0	М
Mar.		5.9		29	27.15			51	2.1	м	7	4.9		38	5 <b>4</b> ·75			39	52.0	M
	16	5.8		29	27.01	<u> </u>		51	2.1	M	16	5.0	<u> </u>	38	54.21			39	50.8	M
244	4	10 Ca	inis	M	i <b>nori</b> s	a, ]	Proc	yon			250		7	rayi	lor 32.	14.				
Feb.	13	1	1 7	32	54.92	1	84	27	47.5	R	Feb. 16	4.6	7	39	32.74	l	130	38	11.0	R
	16		ļ .	32	54.91		04	27	46.6		18	4.2		39	32.60			38	12.3	R
Mar.	1			32	54.93		j	27	46.1	1	28	5.0	1	39	32.55		1	38	11.6	12
			1			٠				_!	Mar. 9	4.7		39	32.58			38	11.2	М
24!	5			κ¹	Риррі	s.					13	4.6	]	39	32.74		]	38	11.9	M
						1	l													
Feb.	21	4.6	7	33	49.18	•••	116	31	32.4	ĺ	251			C	Puppi	<b>s</b> .				
	27	4·6 4·5		33 33	49·21 49·16			31	31.8	1	Feb. 19	5.0	1 7	40	54.39	ſ	127	40	04.5	1
Mar.	-	5.1		33	49.39			31 31	30·7 29·7	1	21	5.0	′	40	54.39		127	40 40	24·7 23·6	R
	19	5.0		33	49.59			31	30.6		26	5.0	1	40	54.51			40	22.5	R
			1			ļ	<u> </u>			1 141	Mar. 1	5.0		40	54.42		1	40	21.1	R
				_							12	5.0		40	54.47	1		40	24.7	М
246	6			κ²	Puppi	s.						<del></del>				<u>,                                     </u>	·			!
Feb.		5.0	7	33	49.93		116	31	37.7	R	252			o I	Puppis	3.				
	26	5.0		33	49.83			31	38.6	1	Fob. 22	5.0	1 -	40	A.00	ı	1,,,,	00	<b>~</b> .0	1
	28	5.0	1	33	49.90			31	38.2		27	5.0	7	43 43	0.83		115	38	7.3	R
Mar.		6.0		33	50.09			31	38.6	1	Mar. 14	5.4	1	13	0.69			38 38	5·8 7·1	R
	21	5.3	<u> </u>	33	50.04			31	38.7	M	15	5.0		43	0.77		1	38	7.0	M
											21	5.0		43	0.90	:::	1	38	5.9	M
247	7		<b>2</b> 6	Mo.	nocero	tis 7	,					1			**		<u> </u>			
Feb.	19	4.5	7	35	25.20	1 1	99	10	2.0	1	253			z v	olanti	s.				
- 55.	22	4.6	<b>'</b>	35	25.17		·/iJ	16 16	3·6 3·4	Ŕ				_			1			,
Mar.		4.7	l		25.00			16	3.3	M	Mar. 26	6.9	7		18.61	5	162	18	48.6	М
		4.6		35				16	3.0	M	28	6.9		43	18.44		1		51.3	M
	22		ı					16	5.5	M	29	6.0		43	18.63			18	50.1	М
	22 23	4.7	]	35	25.00	1														
	23		- Femi				llux				254		7	ауг	or 32	79.				
	23		i Femi		 um β		llux				<b>254</b> Feb. 16	4.5	7	ayl 45		79. 	136	3	58.0	R
	23 8		,	inor		, Po			51·1	R	ľ	4·5 4·5		-	31.15	79.	136	3 4	58·0 1·0	R R

Separate Results of Madras Meridian Circle Observations in 1878.

1	Numl and Date	1	Magnitude.	Me As	an B scens 1878 m.		No. of Wires.	Di	n Postan S78.	ce	Observer.	Number and Date.	Magnitude.		ean I scen 187	8.	No. of Wires.	D	an Pristan 1878	.ce	Observer.
	25	5		•	9 P	uppis						261		i	B. F	. 1 <b>12</b> 9	).				
F	eb.	20	5.0	7	46	7.24		103	34	30.3	R	Feb. 18	F.0	-	~ 1	00.== (	1	100		1	_
		21	5.0	-	46	7.29			34	31.4	R	27	5·0	7	54 54	23.75   23.93		108	3 3	55·7 55·0	R
1	Mar.	27	5.3		46	7:32			34	32.4	M	Mar. 1	5.0		54	23.90	•••		3	55.4	R R
	Apl.	1	5.2		46	7:32			34	31.2	м	5	5.2		54	23.95	6		3	54.9	M
	25	6		<u>'</u>	R. 1	P. L. 4	19.	<u> </u>				7	2.3		54	23.88			3	56.0	M
	Mar.		l		47	30.15		5	35	39.5	R	262		7	ayl	or 336	32.				
1-	<del></del>		<u></u>				<u> </u>	<u> </u>				T7 1 07	1		-					1	
				R.	<i>P</i> . <i>I</i>	L. 49.	s.;	υ.				Feb. 21 25	5.0	7	54	43.76		138	54	49.9	R
1			1	1				,			1	Mar. 14	5.0	l	54	43.86			54	49.4	R
11	Aug.			7	47	28.19	3	5	35	39.3		Mar. 14 15	5.0		54 54	43·78 43·81	•••		54 54	50·3 51·1	M
	Sep.	3	<u> </u>		47	29.02	3	}	35	39.3	R	16	5.0		54	43.88	•••		54 54	51.5	M
-													1 00	<u>.</u> -		40 00	•••		- 54g	ar a	M
	25	7	. •	1	[ayl	or 32	97.									~ .					
1	Feb.	22	5.0	7	47	42.25	ı	124	23	57.5	1-	263			6 (	Cancri	•				
	r co.	25	5.0	′	47	42.31		124	23	57·5 57·4		Feb. 19	1	17	56	1:35	ſ	61	51	55.2	_
11	Mar.		5.0		47	42.39			23	57.9		20		'	56	1.33		01	51	55.0	R R
1		18	5.0		47	42.28		1	23	56.9		22		İ	56	1.39			51	52.9	R
		19	5.4		47	42.49			23	58.7		26			56	1.28		1	51	53.7	R
-				<u> </u>			1	<u> </u>			1	28			56	1.35			51	54.1	R
	25				a F	uppis	2					Mar. 9		1	56	1.48			51	54.8	M
	440				w 1	uppre	•					11			56	1.44			51	56.2	M
:	Mar.	25	5.0	7	48	1.42		130	15	44:	M	12			56	1:33			51	54.9	M
11		30	5.1		48	1.48			15	43:	M	21		1	56	1.45			51	55.9	м
11	Apl.	2	5.0		48	1.51			15	43.9	м	22		1	56	1.32			51	55.9	M
		4	5.0		48	1.49		ļ	15	44.4	R			<u> </u>							
	25	9			<i>b</i> .	Puppi	·s.					264			15	Argus	·				
.	Feb.	19	5.0	1 7	48	19:42	1	128	32	52.0	5   R	Feb. 25	1	8	2	20.99	<b>[</b>	113	57	12.2	R
1	~ UD.	26	5.0	'	48	19.50	1	120	32 32	53.5	- 1	28			2	20.89			57	11.6	R
	Mar.		5.0		48	19:39	1	1	32	52.	1	Mar. 4			2	20.81		1	57	12.1	M
11			5.0			19.58	- 1			51	_	8			2	20.87			57	12.0	м
	26					lor 33		1			<u> </u>	265	<u> </u>	9.9	9 и	onocer	ntie	•			
	20	<b>.</b>			wy							405	,		. 111	J110081	uus	•			
]	Feb.	27	5.0	7		37.21	1	139	17	46	9 R	Mar. 20		8	2	27.65	(	92	37	46.0	м
		28	5.0			37.23				48	- 1	22		Ì	2	27.66			87	46.1	M
I	Mar.	4	5.0			37.26	1			46	- 1	Apl. 1				27.65	1	1	37	47.6	M
		6	5.2			37.23	1			46	1	3				27.76	1		37	45.1	1
1		13	5.0		49	37.32	<u> </u>		17	46	0 ј м	4		1.	2	27.92	<u> </u>		37	46.2	R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Asce 187	nsion '8.	No. of Wires.	Di	n Po stanc 1878.	36	Observer.	Number and Dute.	Magnitude.		an F scen 187		No. of Wires.	Di	ın Postan 1878.	ce	Observer.
266		16	Puppis						273			20	Puppi	is.				
Feb. 16   21   27   Mar. 1   6	5·0 5·0 5·0 5·0 5·2	8 3 3 3 3 3	34·82 34·82 34·78 34·70 34·83		108	53	17·3 15·4 17·8 17·1 18·5	R R R M	Feb. 20 28 Mar. 13 15 18	5·0 5·0 5·3 5·0 5·2	8	7 7 7 7 7	43·48 43·52 43·30 43·35 43·50		105		18·7 17·4 16·9 17·4 17·7	R R M M
267		$\gamma Ar$	gûs—]	lst.					274			r F	Puppis	3.				
Feb. 22 26 Mar. 2 9	5·0 5·0 5·0 5·0 5·2	8 5 5 5 5	43·97 43·79 43·75		136	59 59 59 59 59	15.6 10.6 11.3 10.5 11.7	R	Feb. 16 19 27 Mar. 7 Apl. 3	5·0 5·0 4·9 5·0	8	8 8 8 8	58·29 53·20 53·17 53·39 53·35		125	31 31 31 31 31	53·8 55·0 52·4 55·7 54·1	R R R M
268		Тау	ilor 34	7∺.					275		. ]	17 (	Caneri	β	٠.			
Mar. 27 28 269	5·7 5·8		42:96 43:10 tor 34	       84.	145	43 43	35·2 34·5	ı	Feb. 18 21 25 Mar. 5 8	4·0 4·0 4·0 4·2 4·0	8	9 9 9 9 9	53·74 53·67 53·68 53·91 53·96		80	26 26 26 26 26	23·5 22·2 22·9 22·6 22·9	R R R M M
Mar. 23 25 Apl. 2	5·4 5·6 5·4	8 6	59:20		150	55 55 55	57·7 55·8 56·6	м	<b>276</b> Mar. 29	5.8			<i>Lynci</i> 34·13	,	31	52	41.4	M
270		h 1	Рирр	is					277	d	L	aca	ille 3	 1275				-
Mar. 19 30	5·7 5·4	8 7		i	129	15 15	20 ·:		Mar. 22 30	5·7 5·8	8	13 13		1 '	1	32 32	23·3 24·2	ì
271		Ta	ylor 34	<b>1</b> 80.					278			q	Puppi	s.				
Mar. 21 26	5·4 5·3	1	7 18·72 7 18·55		132	37 37	26°;	1	Feb. 19 20 22 Mar. 2	5·0 5·0 5·0	8	13	59:56 59:46 59:59	)		16	54.9	R
272		$\epsilon$	Volani	tis.					4	5.0			59.28	- 1	1		56.4	1
Mar. 12 16 Apl. 4	5·0 5·0		7 31.69 7 31.80 7 31.63			15	33° 32° 32°	7 м	<b>279</b> Apl. 1	5.2	8		Lync 28.83		46	25	19:0	м

Separate Results of Madras Meridian Oircle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	sion 8.	No. of Wires.		n Postance 878.	lar ee	Observer.	Num and Dat	i i	Magnitude.		an I sceni 1878 m.		No. of Wires.	Dia	n Pestane 1878.	ce	Observer.
280		Radc	liffe 21	ន0.					287	7	2	Ur	sæ	Major	is A	۷.			
Apl. 3	5.0	8 14	33.84		36	23	19.4	R	Mar.	- 1	5.8	8		40.22		24	26 26	26·5 25·6	M
281	·	w	Puppis	···					Apl.	3	5.0			40.13				25 0	R
	( =.0	,		1	100	40	1.41		288	3		Æ	3 Va	lanti	S .				1
Feb. 16	5.0	8 16 16	34·70 84·54		122	40 40	2.4	R R	Feb.	16	5.0	8	24	24.34		155	43	48.9	R
25	5.0	16	34.69			40	2.1	R		18	5.0		24	24.33			43	47.3	R
Mar. i	5.0	16	34.83			40	0.7	R		21	5.0		24	24:41			43	46.8	R
9	5.0	16	34.69			40	3.0	м	Mar.	6	5.0		24	24.49			43	49.6	M
	<del></del>	<u></u>	•••							12	5.0		24	24.27			43	48.1	M
282	,	Lave	ille 33	808.					28	9		6	33 (	ancri	η				
Feb. 19	5.0	8 18			138	5	58.0	R	١.,		. 1	_			, ,	۱ ۵۵		10 E	
21	5.0	18				5	57.8	R	Feb.	27		8	25	39.07	•••	69	8	43.7	R
26	5.0	18				5	56.4	R.	Mar.	1			25	39.12			8	43.5	R
Mar. 2	5.0	18				. 5	54.5	R		4 13			25	39·16 39·03	•••		8 8	44·6 44·2	M
5	6.0	18	46.26			5	58.2	M		15 14			25 25	39.08			8	44.8	M
283		Tan	lor 35	82					1	15			25	39.12		l ]	8	45.2	M
203		Iug	יטו יוטו				•		1	18		Ì	25	39.12		}	8	44.9	M
Mar. 21	5.2	8 19	33.87	<b></b>	98	30	34.8	М	ł	20			25	39.06			8	45.5	М
25	5.7	19	33.91		ĺ	30	35.2	M	i	23			25	39.17		1	8	45.6	M
Apl. 2	5.6	19	33.86		]	30	85.0	M	Apl.	6			25	39.08			8	44.2	R
284		Tay	ylor 35	89.					29	0		4 77	rsæ	Major	ris 7	, 2			
75. 10	1 0.0	10.70		1		•		ſ	Mar		5.0	8	29	32.12	}	25	14	52.5	м
Mar. 19	6·3 5·7	8 19		1	118	39	4.9	M	1	25	5.0	"	29	32.05		25	14	51.2	м
Apl. 6	6.0	19	-	1		39 39	5·2 2·9	M	Apl.		5.2		29	31.92			14	53.1	M
Apr. 0	00	1.	41.14		1	99	29	R		3	5.0		29	31.95	l	1	14	50.3	R
285		Tan	ylor 35	90.						ຶ 8	5.0		29	31.96			14	50.2	R
Mar. 27	9-3	8 19			113	39	2.2	( M			_!	ــــــــــــــــــــــــــــــــــــــ				<u> </u>			<u> </u>
28	9-2	19		1		39	2.2	M	29	91		- 1	lay	lor 37	02.				
Apl. 4	9-1	19	50.98			39	0-1	R	Mar	. 19	5.5	8	31	0.18	1	139	31	28-3	M
8	9-1	19	50.76			39	1.3	R	1	21	5.5		31	0.10			31	28.6	м
10	9.2	19	9 <b>50</b> .77			39	1.2	R	Apl.	. 4	5.2		31	0.34		j	31	28.3	R
286	· · · · · · · · · · · · · · · · · · ·	1 Urs	œ Maj	oris	0			<u> </u>	29	92	<del></del>	·	4	Hydra	δ	<del></del>			<del></del>
Feb. 20	1	8 20	0 6.83	1	00	52	31.9	1 -	1		1 4.0	1 ^	67	41.00	١	1 00	۰.		ı
Feb. 20		8 20		1	28		33.6		1	. 16 19	4.0	8		11.68		88		17.6	
Mar. 7	1	20		1	1	52			1	22	4·0 4·0			11.84				17.7	
8		20		1		52					4.5			11.81	1			18·6 18·1	
11		20		1			33.9	1		. 9	4.2			11.77				19.4	(
				1	l .						1 = 2	_	OT	11 //	1	<u> </u>	52	174	m

Separate Results of Madras Meridian Circle Observations in 1878.

Num and Dat	d	Magnitude.	Asce	Right ension 78.	No. of Wires.	D	an P istar 1878	nce	Observer.	Numl and Dat	1	Magnitude.				No. of Wires.	D	an P istar 1878	ıce	Observer.
29	3		Таз	lor 37	17.					300	)		4	18 (	Cancri	ι				
Mar.	26 30	5·5 5·8	8 32			140	32 32	49·5 49·3	M M	Mar.	29		8	39	18.86		60	47	41.2	М
29	4	<u>J</u>	<u> </u>	elorun	<del>'</del>					301	L		1	1 /	4ydræ	€				
	18	5.0	ı			132	90	15.5		Mar.	5		8	40	18.78		83	8	3.3	м
reb.	20	5.0	8 33			132	33 33	47·5 45·0	R		9			40	18.70			8	2.5	М
	25	5.0	33				33	46.0	R		16			40	18.72	•••		8	2.7	М
Mar.	8	5.0	33				33	47.5	M											
	18	5.0	33	21.14			33	45.9	М	302	<b>≧</b>		ı	a V	Telorui	n.				
	_			e 1111.		1.			-	Mar.	19	5.2	8	-14	58.52	l	135	35	17.2	M
29	5		J	<sup>r</sup> Mali.							21	5.0	į	41	53:50			35	45.9	M
Mar.	23	5.3	8 34	38.67		119	7	40.4	M	Apl.	5	5.0	İ	41	53.20			35	46.4	R
Apl.	2	5.7	34	38:77			7	40.3	M		6	5.0	İ	-11	53.41			35	47.4	R
	6	5.2	34	38.71			7	42.4	R		9	5.0		41	53:35		]	35	45.2	R
	11	5.5	34				7	37.8	R											
	15	5.2	34	38.60		<u> </u>	7	38.6	R	303	3		1:	3 H	ydræ	ρ				
296	6		Tay	lor 374	12.					Mar.	22		8	41	57:95		83	42	43.9	M
Apl.	12	6.0	8 35	16:80		142	39	39.8	R	Apl.	11			41	58.12	<u></u>	<u> </u>	42	43.2	R
29	7		b	Mali.	<u>'</u>				-	304	£			14	Hydra	e.				
Feb.	1.0	5.0	8 35	10.00	1	1101	۳.,	0.4.0	١	Mar.	30	5.7	l s	43	13.98	١	92	59	29.6	M
r do.	19	5.0	8 35 35			124	52 52	34.8	R	Apl.		5.2	"	-13	13.89			59	29.5	R
			, ",	Lui VIL						71.174.	TO	, 00			10 00		1			
	21	5.0	35	19.64		i		34·6 32·4	R	Api.	12	5.2		43	13.87			59	29.5	R
Mar.	21 6	5·0 5·0	35 35				52 52	32·4 35·6	R R M			1							29·5 29·4	R R
Mar.				19.76			52	32.4	R		12	5.2	Colon 1999	43	13·87 14·08			59		
	6	5.0	35 35	19-76 19-60			$\frac{52}{52}$	32·4 35·6	IL M		12 15	5.2		43	13:87			59		
298	6 11 <b>8</b>	5·0 5·2	35 35	19:76 19:60 Carina			$\frac{52}{52}$	32·4 35·6	IL M	Canada F Pass on	12 15	5.2	8	43	13:87 14:08 Varina		146	59 59	29:4	R
	6 11 <b>8</b> 27	5·0 5·2 5·0	35 35 d 8 37	19:76 19:60 Carina 55:21		1-49	52 52 52 52	32·4 35·6 34·6	M M M	30! Mar.	12 15 5	5·5 5·5		43 43 f (	13·87 14·08		146	59		
<b>298</b> Mar.	6 11 8 27 28	5·0 5·2 5·0 5·0	35 35 d 8 37 37	19·76 19·60 Carina 55·21 55·14	2. 	1.49	52 52 52 52 19	32·4 35·6 34·6 34·1 34·1	M M M	30! Mar.	12 15 5	5·5 5·5		43 43 f (	13:87 14:08 Varina 33:49		146	59 59	29.4	R M
298	6 11 8 27 28 4	5·0 5·2 5·0 5·0 5·0	35 35 d 8 37 37 37	19.76 19.60 Carina 55.21 55.14 55.26	g.	1-49	52 52 52 19 19	32·4 35·6 34·6 34·1 34·3 34·5	M M M M	30! Mar.	12 15 5 8 14 15 1	5.5 5.5 5.0 5.0 5.0 5.0	8	43 43 f () 43 43 43	13:87 14:08 Jarina 33:49 33:25 33:27 33:17	····		59 59 19 19 19	18·7 18·8 18·3 18·6	M M M
<b>298</b> Mar.	6 11 8 27 28 4 8	5·0 5·2 5·0 5·0 5·0 5·0	35 35 d 8 37 37 37 37	19.76 19.60 Carina 55.21 55.14 55.26 55.05	2. 		52 52 52 19 19 19	32:4 35:6 34:6 34:1 34:1 34:5 34:6	M M M M M R	<b>30!</b> Mar.	12 15 5 8 14 15	5·5 5·5 5·0 5·0	8	43 43 f () 43 43 43	13·87 14·08 Varina 33·49 33·25 33·27	····		59 59 19 19 19	29°4 18°7 18°8 18°3	M M M
<b>298</b> Маг. Арl.	6 11 8 27 28 4 8 10	5·0 5·2 5·0 5·0 5·0	35 35 d 8 37 37 37 37 37	19.76 19.60 Carina 55.21 55.14 55.26 55.05 55.10	g.		52 52 52 19 19 19	32·4 35·6 34·6 34·1 34·3 34·5	M M M M	<b>30!</b> Mar.	12 15 5 8 14 15 1 8	5.5 5.5 5.0 5.0 5.0 5.0	8	43 43 43 43 43 43 43	13:87 14:08 Jarina 33:49 33:25 33:27 33:17			59 59 19 19 19	18·7 18·8 18·3 18·6	M M M
<b>298</b> Маг. Арl.	6 11 8 27 28 4 8 10	5·0 5·2 5·0 5·0 5·0 5·0 5·0	8 37 37 37 37 aa	19·76 19·60 Carina 55·21 55·14 55·26 55·05 55·10 Mali.			52 52 52 52 19 19 19 19	32·4 35·6 34·6 34·1 34·3 34·5 34·6 34·0	M M M R R	308 Mar. Apl.	12 15 5 8 14 15 1 8	5·5 5·5 5·0 5·0 5·0 5·4 5·0	8	43 43 43 43 43 43 43	13:87 14:08 Jarina 33:49 33:25 33:27 33:17 33:34 Jelorum			19 19 19 19 19 19	18·7 18·8 18·3 18·6 18·7	M M M M
<b>298</b> Маг. Арl.	6 11 8 27 28 4 8 10	5·0 5·2 5·0 5·0 5·0 5·0 5·0	35   35   8 37   37   37   37   37   37   8 38	19:76 19:60 20:76 55:21 55:14 55:26 55:05 55:10 30:76 Mali.	g.		52 52 52 52 19 19 19 19 19	32·4 35·6 34·6 34·1 34·5 34·6 34·0	M M M R R R	308 Mar. Apl. 306 Mar.	12 15 5 8 14 15 1 8	5.5 5.6 5.0 5.0 5.0 5.0 5.0 5.0	8	43 43 43 43 43 43 43 47 V	13:87 14:08 darina 33:49 33:25 33:27 33:17 33:34 elorum 34:53			59 59 19 19 19 19 19	18·7 18·8 18·3 18·6 18·7	M M R
298 Mar. Apl. 298 Mar.	6 11 8 27 28 4 8 10 9	5.0 5.2 5.0 5.0 5.0 5.0 5.0 5.0	35 35 36 8 37 37 37 37 37 4 8 38 38	19:76 19:60 20:70 55:21 55:14 55:26 55:05 55:10 3: Mali. 41:52 41:33	e.		52 52 52 52 19 19 19 19 19 44 44	32·4 35·6 34·6 34·1 34·8 34·6 34·0 52·1 50·8	M M M R R M M M	308 Mar. Apl. 306 Mar.	12 15 5 8 14 15 1 8	5.5 5.6 5.0 5.0 5.0 5.4 5.0	8	43 43 43 43 43 43 43 43 45	13·87 14·08 darina 33·49 33·25 33·27 33·17 33·34 felorum 34·53 34·87	 		59 59 19 19 19 19 19 51	18·7 18·8 18·3 18·6 18·7	M M M R
298 Mar. Apl. 298 Mar.	6 11 88 27 28 4 8 10 9 7 12 13	5·0 5·2 5·0 5·0 5·0 5·0 5·0	35 35 36 8 37 37 37 37 37 4 8 38 38 38	19:76 19:60 20:76 55:21 55:14 55:26 55:05 55:10 30:76 Mali.	g.		52 52 52 19 19 19 19 19 44 44 44	32·4 35·6 34·6 34·1 34·5 34·6 34·0	M M M R R R	308 Mar. Apl. 306 Mar.	12 15 5 8 14 15 1 8	5.5 5.6 5.0 5.0 5.0 5.0 5.0 5.0	8	43 43 43 43 43 43 43 47 V	13·87 14·08 darina 33·49 33·25 33·27 33·17 33·34 delorum 34·53 34·87			59 59 19 19 19 19 19 51 51	18·7 18·8 18·3 18·6 18·7	M M R

Separate Results of Madras Meridian Circle Observations in 1878.

Numbe and Date.		Magnitude.	As	n R cens 1878 m.		No. of Wires.		n Po stand 878.		Observer.	Number and Date.	Magnitude.	G		n R ensi 878	ion	No. of Wires.		n Postano .878.	ce	Observer.
307			10	6 <i>H</i>	ydræ	ζ					314		13	Urs	æ.	Majo	ris	т <sup>2</sup>			
Mar. 1	- 1		8		56.74		83	35	27.1	м	Mar. 29	5	0	8 5	9	38.80		22	22	17-4	м
Į.	4				56.66 56.86			<b>3</b> 5 <b>3</b> 5	27·4 26·7	M R	315			e	Vel	lorum	7				
1 -	5				56.89			35	26.4	R		1				1				1	
	6			48	56.82			35	26.3	R	Mar. 6	5.				56·85 56·84		136	36 36	46.8	M M
308			1	R. 7	P. L.	60.					8	5.				56.92			<b>3</b> 6	46.8	M
	ı						ı				Apl. 3	5.	0	5		57:01			36	45.7	R
Mar.	16		8	49	35.06	3	5	20	0.7	М	10	5	0	5	9	56.87			36	48.0	R
309	)		8 <i>U</i> i	rsæ	Maja	ris	ρ			9	316		1	4 U	rsæ	Мај	oris	au			
Apl.		5.0	8	51	30.97		21	53	46.3	R	Apl. 6	5	0	9	0	50.43		25	59	28.7	R
u	12 15	5·0		51 51	31·13			5 <b>3</b> 58	47·6 47·4	R								<u> </u>		- '	
I			l			!	<u></u>		17 1	, 10	317			Ta	iyl	or 39	91.				
310	)			e e	Carin	æ.					Mar. 22	5	.4	9	2	41.46	١	115	22	1.8	M
Mar.	21	5.4	8	52	17:17	١	150	10	43 9	М	25	5	.7		2	41.61			22	1.2	М
II.	27	5.0		52	16.97			10	44:0	1	010			7	7 0	arine	<u>.</u>	•			
Apl.	8	5'5		52	17.19			10	42.9		318			1	יי	write	Ę.				
	5 8	5·5 5·5		52 52	17·07 17·27			10 10	41.7 43.1	1	Apl. 4	1	.2	9	4	38.26		160	2	55.4	R
1	9	5.2	l		16.99			10		1	8	1	5		4	38.12			2	55.3	R
		<u>'</u>										1.	0 1		4	38.09	]		2	53.2	R
313	L	,	12	Urs	ce Ma	jori	S K				319		]	L6 7	rsa	е Ма	ioris	з с.			
Mar.		4.3	8	55	17:25	1	42	21	44:5	1				,				(			1
Apl.	28 1	4.4		55 55	17·43 17·49	1		21	43.5		Mar. 19	- 1	5•9 5•2	9	4	40.95 41.07	1	28	4	30·7 32·1	M
II.	4	4.0		55	17:34		1	21 21	44 :	1	Apl. 2	- 1	5.4		4	41.01	- 1		4	32.4	M
	6	4.0		55	17:31	1		21			9	{	2.0		4	40.90	1		4	31.4	R
		<del>'</del>				<del>'</del>	<del>'</del>			_!	- 11	.   1	5.0		4	40.95	i		4	32.3	R
31	2	,	11 (	Irs	e Ma	joris	$\sigma^1$									36.7					
Apl.		5.0	8	57		Į.	22			1	320				е	Mali					
	12	5.0		57		1		38			Apl.	5	5-6	9	4	46.4	5	119	52	5.7	R
	15	1 50			39.39				18.	4   B	-1 -1	- 1	5.2		4		- 1		52	4.1	R
31	3		R	adc	liffe 2	2271					1	7	5.2	]	4	46:3	9		52	4.4	R
Mar.	26 30	5·0 5·4	8		45·9 45·9		i		40 ·		021			18 7	Trs	æ Ma	ijori.	s e			
Apl.		5.0			46.0		1		39.	- 1		8	5.2	9	7	24.3	3	35	90	32.0	1
	8	5.0		58			1	. 8		1	1	1	5.4		7			1		32.8	
1)	9	5.0		58	45.8	0	.	;	39	8 1		6	5.0		-	24.1	1	1		31.2	

Separate Results of Madras Meridian Circle Observations in 1878.

a	nber nd ite.	Magnitude.	Asco	Right nsion 78.	No. of Wires.	D	an P istaa 1878		Observer.	Nun ar Da		Magnitude.				No. of Wires.	D	an F istai 1878		Observer.
32	22		$\alpha$	Carino	e.					32	9			h'	Mali.					
Mar	. 9	5.0	9 7	45.44	l	148	28	1.6	м	Mar.	11	5.0	9	16	5.40	l	115	26	49.1	M
	11	5.0	7	45.25			28	4.1	M		12	5.0		16	5.21			26	49.2	M
	12	4.9	7	45.46		i	28	2.4	M		13	5.2		16	5.33	<b></b>		26	49.0	M
Apl.	. 3	5.0	7	45.29			28	4.0	R	Apl.	5	5.0		16	5.41			26	47.8	R
	10	5.0	7	45.32			28	3.0	31		12	5.0		16	5.34			26	49.3	R
32	13		l V	elorun	n.					33	0			1 <i>L</i>	eonis	κ				
Apl.	. 5	5.0	! 9 10	48:42	1	128	3	43.6	R	Apl.	4	5.0	1 0		20.03	1	۱			1
,	24	5.0	10		1	130	3	43.0	R	Apr.	6	5.0	9	17 17	32·91 32·84		63	17 17	34·1 33·8	R
		1			(	l.,						""				1			000	R
32	4		k ª	Veloru	m.					33	l			k (	Carino	v.				
Apl.		5.2	9 10			126	5.1	19.0	R	Mar.	26	5.3	9	18	1.12	<b> </b>	151	53	8.2	м
	12	5.2	10	52.28			54	19.1	R		29	5.4		18	0.84			53	8.8	1
	_		Ou		.•	-				Apl.	2	5.3		18	0.88			53	8.7	М
32	15		<b>১</b> ১	Canci	n.						8	5.2		18	0.91			53	7.8	R
Mar.	. 5 14		9 12			71	, 46 46	42·8 43·7	M M	33	2	30	0 <i>H</i>	ydro	æa, I	7ar.	2.			
	15		12				46	43.9	M				_		. , .				,	,
	16		12	10.29			46	43.3	M	Mar.	8		9	21	35.20		98	7	49.6	М
	18		12	10.23			46	43.7	M	١.,	20		ļ	21	35.48			7	48.8	М
Apl.	15		12	10.13			16	42.7	R	Apl.	1	•••		$\frac{21}{21}$	35·44 35·48			7 7	50.2	M
32			α	Carine	n							•••			99 40			7	47.9	R
Mar.		5.4	9 9 12		 	147	1	52.8	M	33	3		$Ar_{\xi}$	gelc	inder	196				
	27	5.2	12	45:34			ī	52.9	М	Apl.	5	5.0	9	21	44/49		95	32	19.6	R
Apl.	11	5.2	12	45:49			l	52.7	n		12	5.0		21	44:28			32	20.6	ĸ
					' '						15	5.0		21	44/34			32	20.6	R
32		1 1		Hydro	r.			1		334	•	6	277	Tuna	Majo		7.			
Mar.	30	5.5	9 13	53.90		101	27	38.0	М	33	*	_	., 0	1 au	majo	res	76.			
41		5.3	13	53.92			27	37.9	λī	Mar.	23	1.2	9	21	53:97		26	24	22.0	M
Apl.	3	5·5 5·5	13		•••		27	37:3	R		28	4.0		21	53.95			24	23.6	
	8	5.5	13 13				27	37.1	R	Apl.	9	4.0		21	53.82			24	21.6	R
	9	5.2	13				27 27	36·8 36·1	It		10	4:0		21	53.81				22.0	R
			,	0-10 VIII			۱۵	90.1	16		11	4.0		21	53.90			24	22.7	R
32				Hydro	е.					335			থা	ינו	y d ræ	 			- 111	
Mar.		5.6		31.48		99		19.1	м	333	,		.,1	LA	yurus	7 "				į
Apl.		5.2	14					19.5	R	Apl.	22		9	22	57.19		92	14	9. b	R
	17	5.0		31.63				21.0	R		26				57:31			14	4.1	R
	22	5.5	14	31.70			2	18.6	R		30				57.32			14	5-8-	

5·12 

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Asc	nn R eensi 1878 m.		No. of Wires.		n Postane 878.		Observer.	Num and Date	1	Magnitude.		ean R scens 1878 m.	ion 3.	No. of Wires.	$\mathbf{D}_{\mathbf{i}}$	n Po stan 1878.	ce	Observer.
336			n C	arin	æ.					344	Ŀ		7	aylo	r 425	33.				
Mar. 22 25	5·6		24 24	5· <del>06</del> - 5·1 <del>7</del>			24 24	6·4 6·2	M M	Apl.	26 27	5·5 5·5	9	29 29	54·92   54·94		140	42 42	44·3 44·0	R R
Apl. 6 27 29	5.0	1	24 24	5°17			24 24	5·7 5·0	R R	34	5			h C	arina	<u>ا</u> ٤.				
	5.0		24	5-17			24	4.8	R	Mar.	9	5.0	9	30	54.24		148	41	10.2	M
337			€ A	Intlia	3.						15	5.0		30	54.22			41	10.4	M
Mar. 6	5.2	9	24	12.65	l	125	25	6.3	M	١.,	16	5.0		30	54.12	•••		41	7.8	M
7	5.4		24	12.62			25	7.0	M	Apl.	6 12	5·0		30 30	54·14 54·20			41 41	9·4 7·6	R
14	5.4	1		12.48			25	5.2	M			50	<u> </u>							
Apl. 8	5.2	<u> </u>	24	12.64			25	7.6	R	34	6		į	y Ve	lorun	n.				
338		$\zeta^{_1}$ .	Ant	liæ-	-1st	•				$A_{\mathbf{p}}$ ].	4	5.5	9	33	15.52	1	132	38	26.6	R
Mar. 21	6.2	) 9	25	32.27	1	121	21	17:8	M		10	5.2		33	15.64			38	27.9	R
30	6.4	1	25	32.53		121		16.6	M		15	5.2		33	15.61		1	38	26.3	R
Apl. 17	6.0		25	32.36				18.7	R			•								
									-	34	7	•		35 <i>I</i>	Hydra	вι				
339		ζ٢	An	tliœ—	-2na					Apl.	5		9	33	37.77		90	35	22.0	R
Mar. 27	6.0	9	<b>2</b> 5	32.82		121	21	11.3	М		11			33	37.48			35	22.1	R
340			ζ2 _	Antli	œ.						17			33	37.50			85	28.9	R
Apl. 4	6.0	9	26	19:24	i	121	20	5·1	R	34	<b>.</b> 8			38 <i>1</i>	Iydra	еκ				
10	6.0		26	18.99	·		20	8.1	R	Anl	. 24	5.0	9	34	27.28	ı	103	46	46.8	R
12	6.0		26	19.02	2		20	7.0	R		30	5.0		34	27.53	l	100	46	44.8	1
341		10 /	Leor	is M	inor	is.						<u> </u>				<u> </u>	<u>!</u>			
Apl. 11	5.0	9	26	44.61	.	53	3	39.9	R	34	F9			m (	Carin	æ.				
15	5.0		26	44.60	)		3	39.0	1	Mar	. 25	5.0	9	35	58.44		150	46	33.8	м
24	5.0		26	44.69	)		3	<b>39</b> ·8	B		<b>2</b> 6	5.0		35	58.50			46	34.4	м
242			Tar.	1000 4	010					Apl.	1	5.3		35	58.26	1		46	35.8	М
342		-	Luy	lor 4	210.					1	2	5.0		_ 35	58-18			46	35.2	1
Apl. 5	5.0	9	27	30.88	3 i	146	29	48.7	F	.	8	5.0			58-27	7		46	34.0	R
343		1	Laco	ille :	3917					3	50		28	Urs	sæ M	ajor	is.			
Mar. 29	5.4	. 9	. 29	21-6	7	138	27	50		Man	. 28	5.2	1 :	9 36	31-51	ι[	25	47	10.5	M
Apl. 3	5.5	1		21.9			27			Ap	. 3	5.0			31.39		1	47		1
8	5.5			21.6		4	27				22	5.0	- 1		31.26	4		47		
9	5.5	i i	29	21·8 21·7	. 1	1	27		- 1	1	26	5.0	- 1		31.37	1	1	47		1
	5.5	'	29	21.7	4		27	50.5	2 1		29	5.0	J	. 56	31.5	3		47	9.3	R

Separate Results of Madrus Meridian Circle Observations in 1878.

	Magnitude	h. m	nsion. 78. . s.	No. of Wires		stan 1878 ,		Observer.	Number and Date.	Magnitude	As			No. of Wires.	D:	istan 1878.		Observer.
351		θ	Antlia	e.					Apl. 2		9	48	48:47	3	5	29	42.7	м
Mar. 8	ا م.د	9 38	45:98	1 .		1.0	· · · ~		6			48	48.22	3		29	42.2	R
Mar. 8	5·6 5·4	9 38 38			117	12 12	41.7	M	10 22			48 48	48·16 47·81	3	ĺ	29	43.7	R
Apl. 5	5.0	88			!	12	40.8	R	27			48	47.78	3		29 29	41.9 42.0	R
6	5.0	38				12	41.1	R		<u> </u>	<u> </u>	- TAC	77 (0		J	40	42-0	R
10	5.2	38				12	43.1	R			R	P.,	L. 70-	s.j	<b>D.</b>			
352		17	Leonis	$\epsilon$					Sep. 24		ß	48	47:82	3	5	29	42-2	R
Mar. 6		9 38	55:45	·	65	39	52.5	M	357			η.	Antlie	v.				
7		38	55.40			39	54.1	M	M 0		١٥		0.3.40	ı	1			1
19		38				39	52.4	M	Mar. 8	6.0	9	53	38:40	•••	125	18	27.1	M
Apl. i		38				39	52.7	R	13	6.0		53 53	38·17 38·16	• •	Ì	18	29.0	M
9		38				39	52.1	R	Apl. 4	6.0		53	38:45	•••		18 18	26·2 26·7	M
12		38				39	52.9	R	p <del>*</del>	6.0		53	38:38			18	26.1	R
27	]	38	55:42	! •••	-32	39	52.8	R		1	ì	1,1,7	.,(,, ,,,,		J			111
353	2	9 <i>Urs</i>	a: Maj	oris	υ				358		2	9 <i>I</i>	Leonis	$\pi$				
Mar. 21	4.0	9 42	18:37	l	30	23	17:9	M	Mar. 6		. 9	53	45:95		81	22	14.1	M
27	4.4	42			17	23	19.0	M	7		I	53	45.88			22	14.8	M
Apl. 8	4.0	42				23	18.7	11	14			58	45.79	• • • •		22	14.1	M
11	4.0	42	18:29			23	17.6	R	15	<b> </b>	1	53	45.82			22	15.1	М
15	4.0	42	18:33	l		23	17:0	R	25		1	53	45.82			22	14.5	M
.4.					'			1	26			53	45.04			22	15.1	M
354	3	0 <i>Urs</i>	w Maj	oris	φ				27		i	53	45.03			22	15.1	M
				1					30		i	53	45.03			22	14.8	M
Mar. 30		9 43			35	21	5910	M	Apl. 1 3			53	45.98			22	15.7	М
Apl. 24		43		į ·		21	57.2	R.	8		1	53	15.81	• • • • • • • • • • • • • • • • • • • •		22	13.3	R
25		41			· i	21 21	58.2	Iš	11		1	53 53	45.90 45.96			22 22	13·9 12·0	R
26 29		4: 4:	-		į.	21	58°1 59°2	12	15			53	45.97			22	12.6	R
29	•••	1 14	) 47 OF		,	1	.,,,	16	17			53	45 94			22	14:1	R
955		39	Hydra	, ,,1					24			53	15 95			22	13.9	R
355		****	11 g (17 11	. •					25			53	45:92			22	13.7	R
Mar. 9		9 45	36.48	, 1	104	16	20.5	M	29		1	53	45.93			22	14.0	R
11		45	36.46			16	$29\cdot 2$	M	To the same of management of the			• · ·		-	1			
12		45				16	281	M	359		21 L	eor	ris M	inor	s.			
Apl. 3			36.67			16	27.9	R	Man 01	1	1 10		10.00	ı	1	0	10.7	١
4		45	36.2		7	16	28.7	R	Mar. 21 22	5.0	10		13.90		54		43.1	i
		······································	7) 7	<b>D</b> ()					Apl. 2	5.4		.0	13·82 13·92			9	40.7 41.1	M M
356		K.	P. L.	70,					1 fpr. 2	5.0		. ()	13.77			9	40.7	R
Mar. 23		9 48	47:40	3	5	29	42.5	М	8	5.0		0	13:80			9	41.0	
28			47.74	1 :		29		M	9	5.0			13.81				41.6	

Separate Results of Madras Meridian Oircle Observations in 1878.

Number and Date.	Mean Right Sight Ascension 1878. Use 1878. Wean Polar Distance 1878. Sight Ascension 1878. Sight Ascension 1878. Sight Ascension 1878. Sight Ascension 1878.	Number and Date.	Mean Right Ascension 1878.  h. m. s. go war Polar 1878.  h. m. s. go war Polar 1878.
360	15 Sextantis.	365	Taylor 4559.
Mar. 23 29 Apl. 1 3 5	10 1 41.77     89 46 33.1   M     1 41.68     46 33.1   M     1 41.66     46 33.2   M     1 41.86     46 31.6   R     1 41.77     46 31.9   R	Mar. 9   14   15   Apl. 5   6	5·4     10     8     40·26      140     37     42·7     M       5·5     8     40·36      37     41·6     M       5·3     8     40·25      37     43·2     M       5·5     8     40·42      37     41·6     R       5·5     8     40·40      37     42·0     R
361	32 Leonis a, Regulus	366	32 Ursæ Majoris.
Mar. 16 19 Apl. 10 15	10	Apl. 3 8 9 May 8	10   9   8-94     24   16   57-4   R     9   8-95     17   0-9   R     9   9-16     17   0-3   R     9   8-95     16   58-9   R
17 22 26 30	1 52·34 26 12·4 R 1 52·44 26 12·8 R 1 52·38 26 12·5 R 1 52·39 26 13·7 R	<b>367</b> Apl. 15	33 Ursæ Majoris λ 3·5   10 9 43·78     46 28 36·5   R
362	Rumker 193.	17 22	8·5         9 43·73          28 39·0         R           8·5         9 43·79          28 36·4         R
Mar. 11 12 13 Apl. 4 11	8:0     10     3     8:62      150     37     8:6     M       8:1     3     8:79      37     7:5     M       8:0     3     8:66      37     8:8     M       8:0     3     8:78      37     7:9     R       8:0     3     8:81      37     7:3     R	368 Apl. 10 11 12	36 Leonis ζ  4·5   10   9   54·02     65   58   30·8   R 4·5   9   54·01     58   30·1   R 4·5   9   54·00     58   31·4   R
363	Taylor 4522.	May 1 4	4·5 9 54·22 58 29·2 R 4·5 9 54·11 58 29·3 R
Mar. 25 26 Apl. 24 27 May 1	5·4 10 4 18·76 141 12 48·2 M 5·4 4 18·83 12 49·5 M 5·5 4 18·60 12 45·8 R 5·0 4 18·67 12 46·4 R 5·5 4 18·82 12 46·5 R	369 Mar. 30 Apl. 24 26	Lacaille 4233.  5.7   10   10   3.42     155   46   5.7   M   5.5   10   3.27     46   5.3   R   5.5   10   3.34     46   4.4   R
364	41 Hydrα λ	27 30	5.5     10     3·34      46     4·4     R       5.5     10     3·38      46     4·5     n       5.5     10     3·37      46     4·8     R
Mar. 27 28 Apl. 12	10	370 Oct. 8	R. P. L. 72.—s.p.
25 29	4 38·24     45 6·1   R     4 38·21     45 6·2   R	22 Nov. 15	11 39·30 3 7 50·2 C.R 11 39·30 3 7 52·3 M

Number and Date.	Magnitude.	A.	an l scen 187 m.	Right sion 8.	No. of Wires.	Me D	an I istar 1878		Observer	Number and Date.	Magnitude.	Me A	ean Right scension 1878. m. s.	No. of Wires.		an I lista 1878		Observer.
371		(	q C	Carina	<b>?</b> .					377		1	r Velori	ım.				
Mar. 12	5.0	10	13	0.78	i	150	43	23.5	м	Apl. 30	5.0	10	17 5.7	o	131	2	11.2	R
13	4.9	l	13	0.65			43	23.5	M	Мау 6	5.0	ļ	17 5.8	- 1		2	10.8	R
16	5.0	1	18	0.80			43	24.5	M	16	5.2		17 5.7			2	11.7	м
Apl. 25	5.0		13	0.65			43	23.7	R	17	5.2	ł	17 5.5	s		2	14.2	M
29	5.0		13	0.66	ŀ		43	20.8	R	20	5.2		17 5.6	7		2	12.7	M
		·								270			a. Antli	<u></u>				
372		41	L	eonis 1	γ¹					378			γ Antli		1			
Apl. 4	•••	10	13	14.63		69	32	29.1	R	Apl. 29	5.2	10	18 19:0	)	119	.1	53.5	R
373		To	ayl	or 461	l6.					379	:	30 <i>L</i>	conis 1	linor	is.			
Mar. 29	5.0	10	15	1.00		1.44		440		May 4	4.2	10	18 54 9	)	55	34	59.0	R
Apl. 5	5.0		15 15	1.63	•••	144	25	0.8	M			<u>'</u>		<u>'</u>	<del>'</del>			<u>'</u>
6	5.0		15	1.80	•••		24 24	59.6	R	380		La	icaille 4	296.				
9	5.0		15	1.86	•••		24	59·9 59·8	R				•					
12	5.0		15	1.86			25	0.1	R R	Apl. 25	5.2	10	19 21.15	3	156	17	5.4	R
374				iffe 24		<u>.</u>		· · · · ·		381	3.	l Le	onis Mi	noris	3		M. alle par eje med m	
07-2		114	ucı	<i>ijje 2</i> 5	ECO.					Apl. 9	4:5	10	20 49.48	a l	52	40	4.6	R
Apl. 10	5.0	10	15	18.58		23	49	2.1	R	15			20 49.51	1	"	40	6.3	R
22	5.0	:	15	18.79			49	2.7	R	May 11	4.5		20 49:32	1 "	ĺ	40	4.4	R
May 8	2.0		15	18.62			49	1.2	R					1	I			
10	5.0	:	15	18.63			49	1.2	11	382			a Antli	m				
11	5.0		15	18.74			49	1.3	R	304			a Anon	115.				
	,	******								Apl. 1	4.7	10	21 34:1		120	26	51.5	ы
375		$T_{\alpha}$	77,7	or 463	4					4,	4.2		21 34.28			26	19.2	R
075		14	gu	or -roo	т.					5	4.5		21 34-16	1		26	48.6	R
Mar. 26	5.0	10	16	22:48		1.1.1	25	46.8	м	May 1	4.5		21 34:24	ı	1	26	49.0	R
Apl. 3	5.0		16	22.60			25	43.3	12	6	4.2		21 34.25			26	48.2	R
17	5.0	:	16	22.35			25	45 3	R		. 84.6	,	- 000	d				L
27	5.0		16	22:35			25	43.3	11	383		28 1	Jrsæ Me	vioni.	c.			
May 1	5.0		16	22.40			25	44.9	R									
			_	-7			•			Apl. 12	5.0	10			33	53	39.2	R
376		La	cai	lle 42'	<b>7</b> 0.					26 May 10	5·0 5·0		22 48·35 22 48·45	1		23 23	39.3	R
Mar. 27	9.0	10	16	26.24		141	6	2.3	M						<u> </u>			
Apl. 8	8.9			26:20		-	6	1.7	R	204		//1	aula- 4	204				
11	8.9	3		26.17			6	1.0	R	384		$T_i$	aylor 4	ンジ生、				
24	8.9	3		26.33			6	0.2	R	Apl. 17	5.0	10	22 51.65		147	1	2.6	R
26	8.9	1		26.35			6	0.5	R	30	5.0		22 51·70		- "			
~~	0.0			20 00	··· j		1)	0.0	н	30	0.0		22 51.70			1	1.1	R

Separate Results of Madras Meridian Circle Observations in 1878.

Numb and Date		Magnitude.	Αs	nn Riscensi 1878	ion	No. of Wires.		n Postano 878.	lar e	Observer.	Number and Date.	Magnitude.		an I scen 1878 m.		No. of Wires.	D	ın Peistan 1878.	ce	Observer.
385	,		s	Ca	rinæ.						394	,	T	ayl	or 477	73.				
Apl.	3	5.0	10	23	24.27	\	148	7	0.2	R	Mar. 25	7:3	10	31	10.10		147	35	33.6	м
			T	7		24					Apl. 3	7.0		31	10.34			35	32.0	R
386	3		Bri	soa	ne 30	24.					10 22	7·0 7·0		31 31	10·14 10·29	•••		35 35	33·5 35·1	R R
Apl.		5.0	10	23	34.36		155	4	57.0	R	24	7.0			10.34			35	34.5	R
	29	5.0		23	34.39			4	58.3	R		<u> </u>	1			<u>!</u>			)	
38	7		7	aylo	r 470	00.					395		i	t¹ (	Carino	e.				
Mor	00	1 5.0	110	กา	<b>E</b> 0.00	}	1,,,		امیما		Apl. 8	5.2	10	31	46:24		118	55	51.0	R
May	22	5.9	10	23	50.98	<u> </u>	119	2	24.2	M	11	5.2		31	46.22			55	47.7	R
38	8			$\delta A$	ntlia	3.					12 Mars 10	5.5		31	46.18	•••		55	48.4	R
Mon	01	1 5.0	مدا	20	FO. FO	ſ	1		-0.1		May 10 11	5.5		31 31	46·37 46·34			55 55	52·6	R R
Mar.	21	5.8	10	23	58.76		119	58	59.4	R		1	1				1			
38	9		Ra	deli	ffe 2	510.					396		37 .	Leo	nis M	inor	is.			
Мау	4	5.0	10	<b>2</b> 6	6.30		48	56	48.9	R	Apl. 17	4.2	10	31	50.92		57	23	25.2	R
	11	5.0		26	6:31			56	49.9	R	25	4.5		31	51.05			23	25.0	R
	20	5.4	<u> </u>	26	6.54	<u> </u>		56	48.9	м	May 4	4.5		31 31	50·91 51·11			23 23	23·3 22·0	R
39	0			47	Leoni	ς ρ						1 20				]	1			1 4
Mar.	11		10	26	23.03		80	3	55.9	М	397			p v	eloru	m.				
Apl.				26	23.20	1		3	55.8	R	Mar. 22	5.0	10	32	10.57		137	35	32.4	М
	8 9			26 26	23.22	- 1		3	56.9	R.	30	5.0		32	10.66	1		35	31.8	м
1	11			26	28·15	1		3 3	56·2 55·3	R	Apl. 1	5.3		32	10.58			35	33.2	R
May	1			26	23.18	1	1	3		R	6	5.0	- 1	32 32	10.75 10.68	,		35 35	31·8 32·4	R
39	1		34	Leor	is M	inor	ie.			<u> </u>							_ !			
Apl.		50	10			1	-	90	<b>"</b> 0.4	١_	398	•		$\phi^3$	Hydr	æ.				
May		5.4	10	26 26	32·18	1	54	22 22	59·4 57·3	R M	Apl. 27	5.0	10	32	38.18	3	106	1.1	36.0	R
	23	5.9		26	32.2	1		22	-	1	20	5.0		32	38.07	·		14	36.0	R
39	2			aca	ille 4	357					399		. 38	Ur	sæ Mo	ijor	is.			
Mar	. 29	5.8	10	27	15:2	4	161	21	59.0	\ x	Apl. 30	5.0	10	33	36.02	7)	.   23	38	41:4	n
39	93				ce Me						400			$t^2$	Carin	æ.				
Apl.	. 4	5.0			17:4	-		2 17	22.0	1	pl. 4 د	5.0	)   14	) 34	4 6-6	- 1	149	3.0	54.9	R
	26	5.0		27	17.2	8	1	17	19:9	)   1	3	1		34			1		53.1	
May	6	5.0	- 1		17:4		1		7 19:8		May 1	- 1	1	3		- 1	ı	32		
	8	5.0		27	17.5	4	.	17	20.6	I	20	5.	1	3	4 6.5	0	.	32	53.0	M

Number and Date.	Magnitude.	Mean Ascending 187	sion 8.	No. of Wires.	D	ın P istan 1878	nce	Observer.	Numl and Date	L	Magnitude.		enn I scen 1878		No. of Wires.	Di	n Pristan 1878	ce	Observer.
401	•	A	anon.						May	6	1	10	42	50.56		78	48	30.9	B
May 6	9.0	10 35	34.41		1.49	9	57.6	R		10			42	50.59	•••		48	32.0	R
	1				1			]		16 17			$\frac{42}{42}$	50·50 50·65			48 48	33·6	7
402		Tay	lor <b>4</b> 83	33.						20			42	50.63			48	33.7	2
Apl. 5	5.5	10 97	54:46		1 = 9	.40	(1).0	f		21			42	50.68			48	31.6	1
Apl. 5 12	5.2	10 37	54.33	•••	153	49 49	43·2 44·4	R		22			42	50.73			48	31.6	1
24	5.2	37	54.22			49	42.4	R		28			42	50.55			48	31.6	1
May 4	5.2	37	54.47			49	41.0	R		27	•••	1	42	50.69			48	33.4	1
8	5-5	37	54:39			19	39.7	11.		28			42	50.24			-18	33.1	1
403		Tay	lor 484	<b>44.</b>	<u></u>				40	7	•	46 <i>I</i>	Leon	is Mi	nori	s.			
Mar. 26	5.3	10 38	53.87		149	55	36.3	м	Mar.	00	ı	10	46	29:08	!	55	77	40.1	١.
Apl. 3	5.2	38	53.78			55	36.1	R	Mut.	25 25	j	10	46	29.17		00	7 7	39.6	1
8	5.2	38	53.88			55	34.8	JE	Apl.				46	29.00			7	37.0	,
10	5.4	38	53.64			55	36.4	R	1.,	17		1	-16	28.97			7	38.0	,
17	5.2	38	53.74			55	33.7	31		25			-16	29.12			7	40.4	,
404		42 Leon	is Min	ori	s.				40	В	4	45 U	Trsæ	Maje	ris	ω			***************************************
Mar. 23		10 39	4.77		58	40	32:3	M							,	,			
Apl. 11		39	4:58	•••		40	31.7	It	$\Lambda$ pl.	10	5.0	10	46	57.06		46	9	38.4	1
22		39	4.61			40	33.3	R		30	5.0		46	56.92	•••		9	38.9	)
25		39	4.59	• • •		40	33.8	R	May	8	2.0	ł	46	56.85	•••		9	37.6	1
27	1	39	4:60			40	84.5	R		11	5.0		46	56.90	•••		9	37.6	1
405		Tani	or <b>4</b> 87	13						15	5.0	<u></u>	46	56.93	ļ		9	36.7	1
	1	1		• • •	1														
Mar. 21 Apl. 4	5·4 5·5	10 42	2.21	•••	1.16	6	51.8	M	409	•			<i>0</i> · ·	Hydre	e.				
9	5.5	42	2·42 2·32	•••		6	52.0	R	Mar.	977	5.5	10	45	01.45	í	100	ao	=0.1	١.
29	5.2	42	2:31	• • •	!	6 6	51.6 51.1	R		28	5.7	10	47 47	31:47 31:59		109	28 28	56·1 56·4	'
30	5.5	42	2.29			6	53.3	R	Apl.	9	5.5		47	31.39		!	28	53.8	1
		1							May	6			47	31.25			28	53.5	,
406		53	Leonis	l.						10	5.2			31.38				54.5	
Apl. 2	1	10 42	50.64		78	48	33.0	м	l			*********		****	•	- Laur	or the mount		
5		42	1		• • • •		33.0	R	410	)			u C	arina	٠.				
		1	50.60				32.9	R		•			0		•				
6	1	1	50.57				32.6	R	Apl,	22	5.0	10	48	32.23		148	12	20.5	1
						48		ĸ	_	27	5.0			32.24				19.3	ŀ
6		42	50.48	• • • •	1														
6 12		1	50·48 50·60				32.4	R		29	5.0		48	32.15					R
6 12 24		1	50.60				32.4	R R	Мау	29	5·0 5·0			32·15 32·21			12	19·1 19·3	B

Separate Results of Madras Meridian Circle Observations in 1878.

Num and Dat	i	Magnitude.	Me A	ean I scen 1878 m.		No. of Wires.	D	an P istan 1878	ce ·	Observer.	Number and Date.	Magnitude.			Right sion 8.	No. of Wires.	D	an P istar 1878	ice	Observer.
41	1			54 I	Leonis						416		2	۲1	Hydra	ð.				
Apl.	4	4.2	10	49	0.46		64	36	0.8	R	Mar. 22	5.2	10	59.	27:34		116	38	5.2	м
	8	4.4		49	0.33			35	58.6	B	27	5.6		59	27.34		120	38	7.3	M
	12	4.5		49	0.49	•••		35	58.0	R	Apl. 8	5.0		59	27.21			38	6.8	R
Мау	16	4.7		49	0.30			35	57.4	M	11	5.0		59	27.14			38	5.8	R
	17	4.9		49	0.39			35	59.1	M	22	5.0		59	27:11			38	7.0	R
41:	2			ιA	ntilæ						417	<del></del>		v <sup>2</sup>	Hydra	·				
Mar,	26	5.2	10	51	2.13		126	28	55.4	м			. ′		ag ar a	•				
Apl.	5	5.2		51	2.22			28	53.5	R	Mar. 30	5.2	11	U	2.69		116	37	43.8	М
	6	5.2		51	2.16			28	54.8	R	Apl. 1	5.6		0	2.73			37	44.0	M
	24	5.2		51	2.04			28	53.8	R	9	5.0		0	2.87			37	42.2	R
	26	5.2		51	2.07			28	54.2	B	12	5.0		0	2.68			37	43.2	R
			_								24	5.0		0	2.73			37	42.9	R
41		1			eonis	b. '	1				418		7	Гауї	or 50	<b>54</b> .				
Mar.			10	55	49.08		69	9	58.3	M				•			,			
١	23	•••		55	48.92		}	9	57.6	М	May 4	4.5	11	1			148	0	57.7	R
Apl.	6			55	49.01			9	56.7	R	10	2.0	1	1	18.70			0	54.0	R
7	8 9		}	55 55	49·02 49·07	***		9	57·8 56·8	R	21	5.7	<u> </u>	1	18.82	<u> </u>		0	56.8	M
		1	<u> </u>			1	<u></u>		90.9	R	419		52 Z	Irsa	e Maj	oris	ψ			
41	4		•	os L	eonis	X					A = 1 7 2	3.5	1.,		45.05	1				1
Mar.	29		10	58	43.37	[	82	0	16.6	M	Apl. 15	3.5	11	2 2	47·95 47·92		44	50	21.5	R
Apl.	3			58	43.48		1	0	15.0	B	May 6	3.5	1	2	47 92			50 50	22.2	R
	5			58	43.31		1	0	16·5	R	17	3.8		2	48.00			50 50	21.9	R
	10		1	58	43.42		1	0	15.3	R	20	3.6		2	48.10			50	23.0	M
	17		1	58	43.42		1	0	15.6	R						1	}		200	
	25			58	43.35			0	15.3	R	420		7	aul	or 50	68.				
	26			58	43.36			0	15.3	R.										. 1
	29			58	43.37			0	14.7	R	Apl. 27	5.0	11	2	49.72		117	25	10.2	R
3.5-	30			58 50	43.36			0	15.7	R	29	5.0		2	49.70			25	10.2	R
Мау	8 11			58 58	43·28 43·27			0	15.0	R	May 1	5.0		2	49.77			25	10.4	R
	15				43 27			0		R	8	2.0		2	49.89				11.1	R
	27				43.31	1		0			15	5.0	1_	2	49.88			25	8.7	R
	28		1		43:36				14.1	1	421			x	Carino	æ.				
41	5		R.	<b>P</b>	L. 79.	s	p.				Mar. 26	5.3	111		23.09		148		50.9	
Oct.	17	1	110	59	4.33	,	1 -	12	g0.0	1	28	5.4		3		1			53·2	
Nov			10	59		1			50·9 54·0			5.5			22.84				48.8	
1400	. 2			59		1	1		. 52·9		25 26	5.5			22.89		1		51.9	1
		<u> </u>	1		3 10	1 0			. 049	) W	1 20	5.5			22.96		1	18	51.5	R

Num and Dat	d	Magnitude.		ean 1 scen 1878 m.	3.	No of Wires.	Di	n Postan 1878.	co i	Observer.	Numi and Date	d	Magnitude.				No. of Wires.	Di	m Postan 1878.	ce	Ohspream
42	2		7	ayl	or 50	77.					428	3		1	2 C	rateri	s 8				
Apl.	12	5.0	11	4	1.58		121	42	19.0	R		a 1	1				(				,
	22	2.0		4	1.61			42	19.5	R	Mar.	1		11	13	14.38	•••	104	7	6.1	N
May	11	5.0		4	1.48			42	18.2	R		25			13	14.41			7	4:7	N
	22	5.7		4	1.63			42	17:3	M	Y	26	•••		13	14.37			7	6.5	A
	23	5.4		4	1.66	}		42	18.2	M		27			13	14.45			7	7.0	0
				~~		<u> </u>	<u>,</u>				1	28			13	14.50			7	6.2	l P
42	3			68 <i>I</i>	Leonis	ε δ					ł	29			13	14.31			7	6.2	}
Mar.	21	l	111	7	37:03	1	68	48	29.4	M	Apl.	1			13	14.49		1	7	7.0	1
Apl.	6	l		7	37.10	·		48	27.9	R		2			13	14.41			7	7.0	1
•	9			7	37.19			48	27:0	R		4	· ···		13	14.50			7	4.0	:
	11		}	7	37.12			48	27.0	R	1	8			13	14.51			7	5.7	1
	29			7	37:11			48	26.8	R	t .	12			13	14.52			7	5.8	1
May	29	<b> </b>	j	7	37:10	1	1	48	27.1	M		22 26			13	14 54			7	5.5	Î.
·							1			!	l .	30	•••		13	14:53			7	4.8	
42	4			72	Leon	is									13	14.23			7	5.2	1
A = .1	3	5.0	11	8	42.97	i	66		21.6	١	May	4.			13	14:48			7	5.6	1
Apl.	5	5.0	111	8	42.96	1	00	14	20.5	R		30			13	14.69			7	5.4	
	10	5.0	1	8	42:79	1	ł	14 14	54.1	R	į .	31			13	14.36			7	6.1	
M		5.0		8	42.88		ŀ		23.7	R	June	1			13	14.48			7	6.3	
May	1 4	5.0		8	42.83	1		14 14	25.8	R	ł	4 5			13 13	14:42 14:35			7 7	7·0 8·1	1
		!				<u> </u>	<u> </u>					• • • • • • • • • • • • • • • • • • • •				11 00		<u> </u>		01	! !
42		i	1		Maj		ī			1	429	•		7	'ayl	or 519	93.				
Apl.			11	11	40.13	•••	57	47	4.2	R		00		١		40.00	í				1
	24			11	40.13			47	3.6	R	Mar.		7.7	11	16	46.36	• • • •	147	42	57.9	. 1
May	6			11	40.16			47	6.5	R	Λpl.	3 5	7·6 7·6		16	46.59			42	55.7	1
	10			11	40.28			47	3.4	R		6	7.6		16	46.55			42	54.0	1
	11		i	11	40.33	····	l	47	3.3	R	1	11	7.7		16 16	46:48	•••	:	42 42	55.0	1
42	6		54	Ursa	e Maj	ioris	ν				1 /	£1		) 		46.28			42	56.1	_
Apl.		.1.0	111	11	53.01	,	56	14	24 5	R	430	0		7	'ayl	or 519	95.				
•	25	4.0		11	53.12	1		1.4	26.8	R			١ _				1	ı			,
May		4.0		11	52:97	1		1.1	23.3	R	Apl.		5.2	1.1	17	18:13	1	125	29	44 1	,
•	15	4:0		11	52.96	1		14	23.7	R	1	27	5.2		17	18:16	•••		29	44.3	- 1
	16	4:5		11	53:06			1.6	23.4	M	May	6	5.5		17	18.08			29	44.0	
		<u>'</u>				<del>'</del>	1			<u> </u>		15	5.2		17	18.26	1		29	43.0	
42	7		55	Urs	æ Ma	joris	3.					23 27	5·3 5·5		17 17	18·14 18·32	i		29 29	43.9 42.8	1
Apl.	27	5.0	11	12	28:79	·	51	8	41.2		TOTAL SECTION 1 TO						1	<u> </u>			
May	1.	5.0		12	28.83			8			433	1			Гау	lor 51	98.				
	17	5.2		12	28.82			8	41.7	M					J		1	,			
	20	5.4		12	28.88	l l		8	42.5	i	Apl.		7.8	11		18:47		147		46.9	
	21	5.7	1	12	28:83			8	41.6	M		29	7.8		17	18:44		1	38	45.7	

Separate Results of Madras Meridian Circle Observations in 1878.

Numl and Dat	1	Magnitude.	As	n Riscens 1878	ion	No. of Wires.		n Postanc 878.		Observer.	Numl and Dat	a	Magnitude.		ean R scens 1878	sion	No. of Wires.		n Postan 1878.	ce	Observer.
432	2		14	Cr	ateri	s ε					Apl.	10		13.	30	42.00		90	8	59.4	R
Apl.	17	5.0	11	18	27:06	1	100	11	28.1	R		22		:	30	42.01			9	0.3	R
p	22	5.0			27.05		100	11	24.6	R		24	•••	1	30	42.09			8	59.8	R
May	1	5.0			26.99			11	23.3	R		25			30	42.10			8	59 9	R
	8	5.0	)		26.87			11	28.9	R		27			30	42.08			8	59.2	R
	11	5.0	ì		26.85			11	25.2	R	May	1	• • • •		30	42.08			8	59.1	R
	28	5.0	İ		26.97			11	23.4	M		6			30	42.06			8	58.9	R
			<u> </u>	10	20 07	Γ			20 4	M		16		1	30	42.16			8	59.5	M
43	2		Rai	deli	ffe 2	679						17			30	42.09			8	59.0	M
#O	J		ILW	NO VY	,,,,,,,	0.0.						24			30	42.00			9	1.1	M
Apl.	15	5.0	11	19	3.29	1	33	28	50.3	R		29			30	42.11			8	59.7	M
-	24	5.0		19	3.47			28	51.2	R		31			30	42.16		}	9	0.3	М
	30	5.0		19	3.53			28	53.9	R	June	4		1	30	42.20			9	0.1	M
May		5.0	1	19	3.26	1		28	55.1	R			·				<u>'</u>	'		_	
	10	5.0	}	19	3.26	1		28	50.2	1	43	8			2	4non.					
			<u> </u>			)	<u> </u>				May	21	7.9	111	31	50.50	1	150	48	34.1	М
43	4		1	Dr	aconi	ς λ.						23	8.0	1	31	50.50		100	48	36.4	1
	_		_	٠, ر		,0 ,0						25	8.0		31	50.41		Ì			M
Mar.	29	1	11	24	8.77	1	19	59	43.7	М		20	1 00	<u> </u>	91	20.41		1	48	35.4	M
Apl.				24	8.64	1	1	59	44.5	R	١.,			,	24. C	rateri					
	8			24	8.65			59	46.3	R	43	9			2 <del>4</del> €	ruieri	81				
	ย			24	8.69	1	1	59	46.1	R	Мау	4	5.2	11	32	28:19	·	102	31	47.8	R
	11	\		24	8.73	.	1	59	47.6	l l	i	8	5.2		32	28.24	·		31	47.9	R
		1	1			,	<u> </u>		=7 0	<u> </u>		11	5.2		32	28.25			31	47.9	R
43	5		17	Hue	dræ-	$-2n\dot{\alpha}$	2.				June	e 5	2.9		32	28.35		1	31	50.3	М
20				y ·		_,,,,	•				1	8	6.0		32	28.29			31	49.6	М
Apl.	. 5	5.0	11	26	13.89	ı [	118	35	32.0	R			<u> </u>				-) <b>-</b>	.' .		**	j
	17	5.0	1	26	13.6	5		35	34.9	R	44	ŀO			o Ì	ydra	в.				
	25	5.0		26	13.70	) l	1	35	34.4	R	May	1	5.5	11		9:37	,	1101		<b>-</b> .0	_
May	, 1	5.0		26	13 9			35	33.9		15143	10	5.5	111	34			124	4	5.9	R
•	4	5.0		26	13.6	1	}	35			1	15	5.5				1		4	5.3	R
							1					10	55	_  _	34	9.29	1		4	5.8	R
43	36		T	aylo	or 52	82.					44	11	7	63	Urs	œ Maj	joris	χ			
May	, 6	5.5	111	26	52.2	s I	120	24	50.2	R	Mag	v 4	4.0	[ ]]	1 39	35.79	. 1	41	32	92.1	
	8	5.5	1	26	52.4			24			1	, <u>.</u>	4.0	1 **	. 39 39	-	- 1	41		36.4	1
	10	5.2			52.3	- 1			49.5	- 1	1	11	1			35.98		1	32	36.8	1
June		5.4			52.2	1	Į.		20.2		1	e 1	4.0	- 1		36.50				35.9	
. an	3	5.2			52.3		1		52.7		L		1 7 4			o0 20	, ,	1	32	33.6	M
		1								1 ***	. 1	42			λ	Musco	æ.				
43	37			91 1	Leoni	รบ	•				3.5		1	1	,		. 1	1			1
		1	1	0.0	12.1	a I-	1 00	. ~		- 1	1	y 8	1			51.3				10 5	1
Mar	. 22		111		42.1					- 1	1	20	4.4	ı		51.5			3		1
	28				42.0		1	9				22	4.8			51.2		1		10.0	
Apl.	. 2			30	42.1	1		9	1.	i   M	Jur	1e 7	4.9	1	39	51.5	9	ļ	3	8.0	M

Number and Date.		fean Right Ascension 1878. m. s.	No. of Wires.	Iean Dista 187	nce	Observer.	Number and Date.	Magnitude.	Asce 18	Right nsion 78.	No. of Wires.	Me D	an I istai 1878		Observer.
443	•	Taylor 54	02.				<del>11</del> 9		31 (	Crateri	is.				
May 10	5.5 11	40 37:21	10	io 30	1.0	R	Apl. 30	5.5	11 54	37:02	l	108	58	47.6	R
15	5.2	40 37:21		30		R	May 1	5.2	5.1	37.03			58	46.4	R
27	5.4	40 37:19	1	30	0.9	M	4	5.2	54	36.91			58	47:3	R
							- 6	5.2	54	36.93			58	46.7	R
444		93 Leoni	s.				8	5.2	54	36.98			58	<b>E47</b> ·6	R
May 16	11	41 41.39	6	9 6		М	450		67	Gentai	uri.				
17 24	5.0	41 41.36		6		M									
201	4.6	41 41 43	l j	6	10.8	M .	May 10	5.2	11 57	20.80	•••	131	45	3.2	R
							11	5.2	57	20.77			45	$3 \cdot 2$	R
445	94 <i>I</i>	Leonis β,	Deneb.				16	6.0	57	20.86			45	2.8	M
	1 (						June. 1	5.2	57	20.78	•••		45	3.3	м
Mar. 30	11	42 - 50.28	7	4-44	46.5	М	. 4	5.4	57	20.81	•••		45	3.6	М
May 28		42 50.18		1.1	46.0	М									
29		42 - 50.15		-14	464	M	451		$\theta^2$	Crucis	ę.				
31		42 50.20		.14	46.8	M	201		v	0.0000	,.				
June 6		42 50 27		4.4	46.7	M	May 15	5.2	11 58	2.94		152	29	12.0	R
10		12 50 22		44	47.1	M	22	5.4	58	3.06	•		29	12.0	M
	or name			•			27	5.4	58	2.97			29	11.2	М
446	5	5 Centaur	ri.				June. 7	5.4	58	3.05			29	12.3	М
Apl. 30	5:5 11	45 2:97	13	4 29	40.2	R	4.50		י מ	P. L.	00				
May 1	5.2	45 - 2.77		29	41.8	R	452		11.	. L.	0.7.				
21	5.6	45 2.92		29	40.6	M	May 20 [		11 58	35.91	3	1 3	44	11.0	М
23	5.4	45 2.84		29	10.3	M	25		58	36:45	3	,	44	11.7	M
25	5.2	45 2.96		29	41.8	M	31		58	36.62	3		44	11.3	M
							,				-	×			
447	7	Caylor 54:	37.	•					R. P.	L. 89	—sz	).			
May 4	5.5 11	46 8:43	140	; 18	36-9	R		1	1		-				
8	5.2	46 8:58		18	36.0	R	Nov. 14		11 58	36.63	3	3		14.9	M
11	5.5	46_8:56		18	36.4	R	21		58	36.03	2		44	14.0	M
448		c Hydra	?.				453		η (	Trucis.					
May 6	55 11	47 17:46	1 19.	, 23	11.6	R	Apl. 30	4:5	12 0	31.87		158	56	2.2	R
10	5 5	47 17:56			12.2	R	May 1	4.2		31.84		1.70	56	1.9	R
15	5.2	47 17:54			11.4	R	6	4.5	0				56	0.9	R
		.47 17.62			12.3	- 1	21	4.6	0		i		55	58.1	
June 5	6.0	4/ 1/02	!	ودن	100	M	251. 1	-2: ()		91 370			.,,,,	DO.T.	м

Separate Results of Madras Meridian Circle Observations in 1878.

Numbe and Date.	Magnitude,	h.	Asce 18	n Right ension 878.	No. of Wires.			Polar ance 78.	Observer.	Nun an Da	ıd	Magnitude.	h	Asc 1	n Right ension 878. u. s.	No. of Wires.	;	Dist	Polutance 378.	
454			2	Corvi	€					46	0	l	Car	um	Vend	itico	run	ı.		
May 4	1	12	3	51.15	1	111	56	26·5	R	Мау	22	5.8	12	10	22.25	3 1	50	6 1.	5 227	s :
8			3	51.24			56	27.1	R	June	8	5.4		10	22.07			1.		1
10			3		1		56	26.4	R		15	5.4		10	22.10	;		1.0	5 24"	7   2
17			3		1		56	26.2	M				<u> </u>		160					
June 8		1	3 3				56	26.6	М	461	1			ζ	Cruci	s.				
11			3			1	56 56	27·3 27·1	M	May	4	5.0	12	11	50.22	1 5	158	3 15	) 314	
12			3				56	28.6	M M		21	4.9	12		50.33	ı	1.00	1 1 1		1 -
455		Ra	del	liffe 2	<u>'</u>					462	2		<u>'</u>		Virgin					, , ,
May 27	5.3	12	6	28.18	1	· 11	42	19.2		Мау	6		12		39.84		من ا			
28	5.2		6	28:36		11	42	17.8	M M		11	•••	12	13 13	39.86		89		_	,
29	5.9		6	28.45		ŕ	42	19.5	M		15	•••		13	39.82			59 59	- •	1
June 5	5.8		6	28.19			42	20.7	м		24			13	39.87			59		R
6	5.6		6	28.35			42	19.9	M				<u> </u>				<u> </u>			1
456		Tayl	or	5607-	_2n	$\overline{d}$ .				463	3			5	Corvi	ζ				
Apl. 30	5.2	12	7	40:31	l	135	2	42.8		Apl.		5.5	12	14	14.67		111	32	13:7	R
May 6	5.2		7	40.36		100	2	41.3	R R	May :	- 1	5.2	İ	14	14.61			32	13.0	11
11	5.2		7	40.24			2	43.5	R		23	5.7		14	14.83			32	13.1	DI
15	5.2		7	40.33			2	43.2	R		25	5.5		14	14.67			32	14.2	M
16	5.7		7	40.26			2	43.0	м	June	7	5.8		14	14.71			32	13.2	M
457			6 (	Comæ.					_	464			R.	P. 1	. 93. <b>–</b>	-s.p	٠.			
May 1	5.0	12	9	48.48		74	25	17.4	R	Nov.	9	1	12	14	19.31	9	I	37	264	
8	5.0		9	48.57			25	19.0	R										19°E	M
10 June 1	5.0		9	48.54			25	20.2	R	465				11	Coma					
3	5.1		9	48.55			25	17.5	м	May 1	7	5.2	12	14	33 08	. 1	71	21	57.8	
			.,	48:40			25	19.7	м			'				- (			.,, .,	M
458	2 (	Canu	m	Venat	icor	um.				466				12	$\mathit{Com}_{\mathscr{C}}.$					
Мау 30	5.4	12	10	0.65	!	10	00		- 1	Мау		5.0	12	16	22.29		63	28	35.3	R
31	5.6		10	0.65 0.85					M		8	5.0		16	22:36				37.6	
lune 4	5.7		10	0.67					M	405									100	
10	5.8	;	10	0.68				37·7 37·3	M	467	_ 1				Corvi.					
11	5.8		10	0.65				0	M M	May 1	6	5.8	12	17	0.31		114	9	47.0	M
459			7 (	omæ.	4000					468					Comæ.					
Iay 20	5 G	12 ]	10	10.11	. 1	e= -	20	1		May 4	4 [	5.0	12	18	10.95	4	00			
une 12	5.7	1	LO .	10 11			22	33.2	и	29		5.7			77.0				27.9	R
			_				4Z	34.4	M	June (		5.2			11.12			18 13	27.5	M

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.			No. of Wires.	D	an I ista 1878		Observer.	Numb and Date	l	Magnitude.	As			No. of Wires.	D	an P istar 1878	nce	Observer.
469		` 14	Coma	?.					476	6		;	9 <b>C</b>	Corvi A	3				
May 6	5.0	12 20	17:88		62	3	18.6	R	June	11	I	12	27	58.93	١	112	43	16.1	м
28	5.4	20	17.92			3	18.5	M		13		l	- <i>.</i> 27	58.89		112		16 5	M
June 1	5.3	20	17:96			3	19.0	M			1	<u> </u>				<u></u>			
11	5.7	20	17.88				20.0	M	477	,		5	Dr	aconis	sκ				
470		15	Comæ	γ				9	May	20	3.8	12	28	16.24	(	1 19	32	18.9	М
	1				1				_	21	3.5	1	28	16.60		"	32	18.3	M
Apl. 30	4.5	12 20			61	3	10.f	R		22	3.9		28	16:51			32	16.7	M
May 1	4.5	20				3	9.4	R			· · · · · · · · · · · · · · · · · · ·	!				<u> </u>	· · · · · · · · · · · · · · · · · · ·		
June 4	5.0	20	51.40		<u> </u>	3	10.9	M	478	3		2	23	Comæ					
471		16	Coma	٠.					May	23	4.9	12	28	46:50		66	41	54.0	M
May 10	5.0	12 20	53:30	1	62	29	53.4	R		25	4:7	:	28	46.64			41	55.0	М
27	5.3	20			0	29	58.7	м	June	6	5.0		28	46.56			41	56.0	M
472		σC	entaur	i.	•				479	•		24	Cor	næ	2nd.				
May 11	4.5	12 21	26.71	l l	139	33	14.9	ĸ	May	10		12	29	0.57		70	57	2.2	R
										15			29	0.48			57	2.4	R
473		71 C	entaur	;						31	···		29	0.23			57	3.1	M
*/3		u ce	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							8		ł	29	0.33			57	2.8	M
May 8	5.0	12 21	53:37		128	21	56.1	R		15	•••		29	0.47			57	3.3	M
15	5.0	21	53.82			21	55.0	R											
June 5	5.7	21	53.45			21	57.1	M	480	)		T	$C\epsilon$	entaur	ri.				
12	5.4	21	<b>53</b> .58			21	57.0	M				1 .			1				
4 100 4		0	O					-	May	30	5.3	12	31	2.10		137	52	9.5	M
474	1	יס י	Corvi ·	η . ,	r				481	L			1 I	4ydr <b>a</b>	3.				
May 4	4.5	12 25			105	31	10.6	R						-	1	1			
11	4.5	25				31	12.0	R	May	4	5.2	1	31	14.33		116	27	50.5	R
16	4.4	25	47:00			31	11.9	M		11	5.5	1	31	11.38			27	50.3	R
June 7	4.8	25	46:85			31	10.8	M		28	5.9	İ.	31	14:30	•••		27	49.0	M
10	4.9	25	46.91			٥l	12.2	M 	June	4	5.9		3 I	14.31		I	27	50.5	M
475	8 6	Canum	Venat	icor	mβ				482	3		ι	Ce	ntaur	i.				
Apl. 30	4.0		56.65		47		44.4	R	May		5.0			16:53		129		54.8	ĸ
May 1	4.0		56.71	•••			43.9	R		16	5.2	!		16.66				55.6	M
6	4.0		56.72				15.3	R		27	5.1			16.24				56.3	M
8	4.0		56.76	•••			46.7	R	June		5.2	l		16.21		-		55.4	
17	4.3	. 27	<b>56</b> ·68			58	44:3	М		3	5.3		33	16.55	•••	i	18	55.4	M

Separate Results of Madras Meridian Vircle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	rsion 78.	No. of Wires.		Politance 378.		Observer.	Number and Date.	Magnitude.	Me As	an F scens 1878 m.		No. of Wires.	Di	n Postano 1878.	ce	Observer.
483		30 J	Irgini	s p					490		7	ı Ce	ntaur	·i.				
May 10 15 24	5·0 5·0 5·4	12 35 35 35	42.45		79	5	28·5 28·2 27·7	R R M	May 23 24 30	5·3 5·5	12	46 46 46	41.00 40.91 40.95		129	30 30 30	53·3 53·5 54·1	M M M
June 5	5·5 5·6	31					30·7 29·3	M M	491	<del></del>		35	Comæ	·				
484		Taz	lor 58	39.					May 31 June 3		12	47 47	17·40 17·43		68	5 5	28·7 31·4	M M
May 8	5·5 5·8	12 8		1	138		32·5 33·3	1	12			-	17.55			5	32.9	
June 12	5.5	3	•				32.6	1	492		o C	ent	auri–	-1st				
485			Cruci	s.					May 27 28	5·0 5·2	12	47 47	26·05 25·94		146	30 30	53·1 51·7	M M
May 4 11 25	5·5 5·5 5·4	12 33 33	8 28.22			18 18 18	40.2 40.0 40.9	R	493	<del></del>	<del>-'</del>	R. 1	P. L. 9	98.	·			,
486	0.3	1	7 Com				40 0		May 8 15		12	48 48	6·67 6·69	3	5	55 55	5·5 3·2	1
May 6	5.0	12 4	0 32.99	)	72	45	19:4	4   R	494	-		R.	P. L.	99.				
10 15	5·0 5·0	1	0 32·89 0 32·98	ı		45 45	20.8	1	June 15		12	48	14:86	3	5	55	24.7	M
June 8	5.2	4	0 33.0	3		45	21.	1 м			R	. P.	L. 99	.—s	<u>.                                    </u>			-
<b>487</b> May 4	5.9	1	ylor 59 15 14:10		129	0	57.	1   R	Nov. 25		12	48 48		1	5	55 55		1
16 17	2.0 2.0	4	15 14·30	s		0	57· 57·	4 м	495				lor 59		<del>'</del>			
June 4 10	5·9 5·9	1	45 14·2· 45 14·1·	1	1	0	57 57	1	May 29	1	- 1	2 48	3 46·44	1		10 10		M
488		Ta	ylor 5	918.	-				496				Vend					1 10
May 20 21	5.4	1	46 12.9	1	.   138			ı	June 7				) 18·9·				19.6	<b>ы</b>
22 June 1	5·6 5·7 5·7	1	46 13.9 46 13.9 46 13.9	6	1	16	43 43 44	4 :	·	<u> </u>	ı	50	0 19:0	6			20.8	ı
	1 0 7				<u> </u>			- 1	497 May	1 4	<u> 5</u>   1		6 Con 2 53.3	,	. #		56%	ĸ 1
<b>489</b> May 6 10 11	5·5 5·5 5·5	12	κ Crue 46 32.4 46 32.4 46 32.4	14   10	1	42	47 46 46	9.9	R June	3 4· 0 4· 5 4·	5	5 5 5	2 53 1 2 53 1 2 53 2 2 53 3 2 53 3	4 26 37		58 58 58	56	5 R 4 R

Separate Results of Madras Meridian Circle Observations in 1878.

l	umber and Jate.	Magnitude.	Mean l Ascen 1873 h. m.	sion	No. of Wires.		n Postun 878.	ce ¦	Observer.	Number and Date.	Magnitude.	As		Right sion	No. of Wires.	Di	n Postano 878.	e	Observer.
4	<b>1</b> 98		37	Comæ						507		49	Vi	irginis	3 g.				
M	ay 8	5.0	12 54 54	26·09 26·17		58	33 33	22·6 22·0	R	May 10		13	1	30.45		100	5	13.8	R
	11 16	5·8	54	26.28			33	21.8	R. M	508		7	R. 7	7. 180	5.				
Ju	me <b>17</b>	5.0	54	26.58			33	24.1	R						1	۱			
-	<b>1</b> 99		78 Urs	ac Ma	jori	s				May 15	5.2	13	2	10.92		98	19	48.2	R
M	ny 15	5.0	12 55	29:20		32	58	31.1	R	509		4	5 <i>E</i>	ly d <b>r</b> æ	ψ				
		' <u>.</u>				!				May 29	5.4	13	2	29.15		112	27	53.1	М
-	500		ξ' (	Pentai	ıri.					30	5.4		2	29.04			27	23.9	M
ll M	av 20	5.7	12 56	30.08	١	138	52	14.5	M	June 8	4.9	j	2	29·03 29·17	•••	İ	27 27	53·9 53·4	M R
	25	5.6	56				52	13.9	М	17	4.5	(	3	20 1/	<u> </u>	<u> </u>			1 -
	501		Tayi	lor 60	13.				·	510		5	1 V	irgini	sθ				
		1	,		ı	1	4.5	20.0	1.	May 8		13	3	37.99		94	53	11.5	R
M	ay 4	5.5	12 59	12.69 12.84		137	48 48	30.0	R	11			3	38.06			58	13.2	R
т,	21 ane 4	5.4	59 59	12.88			.18	28·7 30·3	M	June 3			3	38.06		ļ	53	12.1	M
	19	5.5	59	12.62			-18	30.2	R	10		ļ.	3	38.13			58	12.6	M
	20	5.2	59	12.72			48	31.1	1t	13	<u> </u>	<u> </u>	3	37:99		<u> </u>	53	11.7	M
-	502		£2 G	entau	ri.					511		T	ayl	or 60.	56.				
		1				1.00		4.4	ı	June 1	5.0	13	4	25:22		132	43	5-3	М
	lay 22	5.0	12 59	47.72		139		6.3	M	512		17	2. C	entau	ri.				
	503	14	Canum	Vena	tico	rum.					1				1	1			1
M	lay 6	5.0	13 0	1.04		53	32	49 4	R	May 4	5.5			15.09		127	9	19-4	1
	17	5.4	0	2.13			32	49.0	M	June 19	5.5			14.92		<u> </u>	9	19-1	1 26
	31	6.0	0	2.20			32	53:0	М	513		,	43 (	Comæ	В				
1	ine 12 18	5.0	0	2·09 2·01	•••	İ	32 32	50°9 51°5	M	0.0				3377000					
	*0	1 "	, ,,	201	•••		*)-1	91.9	R	June 5	4.4	13	6	11.07		61	30	11.4	M
			Д	Musc						July 6			6	10.82			30		C.R
П	504	1 2.0				. 153	90	0.0	1	10				10.87	5		30	8.9	C.R
"	Luy 20		13 0	10 00		1.09			M	514		7	ayi	or 60	77.				
	505		39	Como	е.					June 18	5.5	13	6	42.67		148	27	3.4	R
N	lay 24	5.9	13 0	2.1.33		68	11	29.2	М		1			Vena	1			·	•
	506	_	41	Como	e.					515						1	70	1.0	
1.	C 0P	1	18 1	losse	1		40	10.4	1	May 10 15	- 1	13		10.67 10.77	1	49	12 12	0.3 1.3	i
11 ,	Iay 27 28		1	19.55	1	1		11.4	1	June 20	1			10.67			12	10	1
1			1 .1	14 40	ļ ···	1	40	11.1	, M	V tale 20	1 , ,	1	• • •	± 0/	1	1			1

Separate Results of Madras Meridian Circle Observations in 1878.

	<del>,</del>	<del></del>			==												<del></del>
Number and Date.	Magnitude.	Asce 18	Right nsion 78.	D	an P istan 1878	ıce	Observer.	Number and Date.	-	Magnitude.	Asc	Right	of Wires.		an I Dista 1878		Observer.
	R	h. n		•	,	"	Ö			Me	h. 1	п. г.	No.	0	′	"	5
516		57	Virginis.					523			d	Centau	ri.			1.00000 00	
Мау 16	6.0	13 9	22.82	.   109	17	35.2	м	May 8		<b>1</b> ·5	12 0	70.44	1	1,00	40	05.1	١.,
June 17	5.2	9	23.08	.	17	<b>36</b> ·0	R	16	1	2.9 * 9	13 28 28			128	46 46	35·1 36·0	R
				<u> </u>				17	- 1	1.8	28				46	34.2	М
517		61	Virginis					June 4	4	4.6	28	58.43			46	35.6	м
May 20	4.6	13 15	2 1.34	.   107	37	54.7	м	8		4.7	28	58.48			46	35.8	M
21	4.6	15	2 1.17	1	37	53.0	M				an.	7 07					
June 19	4.5	15	2 1.33	.	37	<b>53</b> ·5	R	524			Taj	ylor 62	35,				
	00	α						May 20	1 8	8.2	13 24	7:46		70	18	40.6	M
518	20	Canu	n Venatio	orum	•			22	- ( '	8.4	24			1	18	38.8	M
May 22	5.4	13 15	2 4·37 i	. 48	47	3.8	м	28	] [8	8·1	24	7.51			18	38.9	M
	<u>'</u>	<u>'</u>	<del></del>				'				<b>5</b> 0	TZ:	٠. ٠				
519	21	Canun	n Venatie	orum	•			525			79	Virgin	$ts \zeta$				
May 4	1	13 13	3-78	.   39	<b>-40</b>	-297	_	May 10	1		18 28	28.65		89	58	14.9	R
15	5.0	18	2 10 1		40	30.6	R	_ 15	1	•••	28				58	14 <sup>.</sup> 8	R
23-	5-4	13		.	40	31.0	M	June 7		· <b>··</b>	28				58	15.9	M
June 4	5-8	13	3.镑		40	33.2	M	July 2			28	28 64		]	58	16.3	C.1
8	5.2	18	- 1	• ]	40	31.5	M	l		04	α	**					
E00	G!	7 772	3.88°			31.7		526		24	Canu	n Ven	atic	orum	•		
520	6'	ı virgi	inis a, Sp	ıca.				May 4	.   ;	5.0	13 29	27.94		40	21	32.0	R
May 24		13 18	45.99	.   100	31	25.4	M	8	1	5.0	29	27.93			21	35.1	R
June 3		18	3 45·92	.	31	26.4	M	21	i '	5'1	20				21	31.4	M
10		18	3 45.87	.	31	25.4	м	June 12	- (	5·1	29		•••		21	34.6	M
July 2	]	18	3 <b>45</b> 94	. ]	31	26.0	C.B	15	1	5·3 	29	27.93	5		21	35.4	M
521		68	Virginis i	•				527	:	25 <i>(</i>	Canun	ı Vena	tico	<b>r</b> um.			
May 15	5.0	13 20	16.55	.   102	4	17.7	R	May 6	5	5.0	13 39	2.43		53	5	0.1	R
29	5.0	20	16.57	.	4	19.5	M	25	ā	5.6	32	2.62			5	1.8	М
June 1	5.3	20		.	4	20.3	M	. 27	t	5.3	32	2.60			5	2.2	M
5	5.3	20		.	4	21.2	M	June 20	- 1	5.0	32			1	5	2.4	R
19	5.0	20	16.23	.	4	17.8	R	26	_   8	2.0	32	2.67			5	2.5	R
522		<b>6</b> 9	Virginis.					528			Lac	aille 5	632.				
May 4		13 20	56.77	.   105	20	23 ·9	R	May 28	. 1	5·9	19 04	20.00	ı	1 4 4 4		05:0	ı
6		20			20	23.4	R	June 1	}	6·0	13 35			143			1
10		20		- 1	20	23.6	R	4	- 1	5.5		56.28 56.28	1		56 =e	27.5	M
			1	i	4.1		1	1 1	- 1 '		1 36			1	56	25.2	M
June 20 July 12	•••	20	[	· [	20	24-9	R	5		5.9	38	56.45		l	56	26.1	м

3· 2·96 22 ·24 2·94

Number and Date.	Magnitude.	A	an 1 scen 1878 m.		No. of Wires.		n Pestan 878.	ce	Observer.	Number and Date.	Magnitude.			Right sion 8.	No. of Wires.	D	an Pistan 1878.	.ce	Observer.
529		83	Urs	œ Ma	joris	3.				535		Тау	lor	6424-	2n	d.			
May 8	5.0	13	36	6.63		34	41	59.2	R	May 6	5.5	13	44	13.73		142	12	18:7	R
10	5.0		36	6.54			41	59.8	R	July 9			44	13.74			12	18.1	c.R
16	5.6		36	6.78			41	58.6	M		-	9	<i>C</i> •	ntaur					
June 10 11	5·9 5·0		36 36	6·57 6·69			41 41	59·6	M M	536		o	O e	nıaur	ı K				
					l	<u> </u>				May 27	4.6	13	41	47:28		122	23	16.7	М
530		1	Cer	ntaur	ii.					June 18	4.2	<u> </u>	44	47.26			23	17.6	R
May 6	5.0	13	38	45:30	١	122	25	32.1	R	537		4	l Ce	ntaui	ri h				
17	5.0		38	45.38			25	31.9	M	May 23	1 5.5	13	46	11.35	1	121	19	26.8	м
29	5.3		38	45 15			25	32.9	M	June 4	5.1	"	46	11.39			19	27.5	м
June 8	5.4		38	45:29			25	33.4	M	5	5.4		46	11.57			19	28·1	м
18	5.0		38	45.25			25	34.7	R		·	<u> </u>							<del>' -</del>
		,	n'		=0					538		H	lum	ker 3	60.				
531		7	L'ay i	lor 63	76.					May 15	7.8	13	46	12:23	<b> </b>	150	43	55.7	R
May 22	5.2	13	38	56.60	5	140	49	8.5	M	25	8.0		46	12:35			43	56.2	М
June 20	5.0	ŀ	38	56.44		1	49	9.6	R		·				.!	·			
July 6			38	56.41			49	7.8	C.R	539		1(	) Di	racon	isι		į		
8			38	56.26			49	9-5	C.R	May 4	4.5	13	47	52.04	1	24	40	22.9	R
12			38	56.68			49	9.5	C.R	10	4.5		47	52.02			40	23.6	1
			1. E	Bootis	_					July 12			47	51.99		ŀ	40	22.9	c.R
532			* L	000113	7										·'				
May 10		13	41	27:76		71	56	3.3	R	540			8 <i>B</i>	ootis	η				
20			41	27:67			56	4.6	M	June 1	1	13	48	52:59	1	70	59	24.6	М
21			41	27.78			56	2.4	M	7			48	52:49			59	23.3	1
June 12			41.	27:89			56	4-4	M	8			48	52:48			59	23.9	м
13	<u> </u>		41	27.93		<u> </u>	56	4.5	M	15			48	52.57			59	26.7	M
li		_	. ~							19			48	52.54			59	24.1	R
533		2	Ce	ntaur	$\iota g$ .					26			48	<b>52·4</b> 6			59	23.2	R
May 8	5.0	13	42	22:79	۱	123	50	25.9	R										t r mhartag
28	5.3		42	22.72			50	26.8	м	541	G	Z.	C.	XIII.	3	120.			
31	5.3		42	22.72	•		50	26.4	м	July 6	7.7	110	KΟ	57:13	1	140	FO	17.5	1
June 3	5.3		42			İ	50	26.4	м	July 0	1 "	13	50	07 10	1	140	- 50	17.5	U. K
19	5.0		42	22.75	<u>}</u>		50	25.5	R	542			9	Bootis					
534			5 1	Bootis	11					Мау 6	5.0	[13	50	59·74	1	61	54	36.6	R
204			o I	JUU118	U					30	5.3	~		59.77				36.7	
June 20	4.0	13	43	35.39		73	35	46.4	n	June 10	5.8			59.99				34.4	
26	4.0			35.34			35	45.9		18	5.0			59.93				33.1	
July 10		.	43	35.47			<b>3</b> 5	44.8	C.R	20	5.0			59.85				32.5	1

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascen 187	8.	No. of Wires.		n Potano 878.	olar ce.	Observer.	Number and Date.	Magnitude.	A	an F scens 1878 m.		No. of Wires.	Di	ın P İstan 1878	ce	Observer.
543		$v^1$ C	entaur	i.					549		11	Dre	aconi	s a				
May 22 29 31 June 11 July 8	5.1 5.0 5.3 5.8		9.08 9.04 9.15 9.25 9.25			12 12 12 12 12	25·9 25·7 25·9 25·4 26·1		May 28 June 15 18 19 20	4·0 4·0 3·5 3·5 3·5	14.	1 1 1 1 2 ayle	5·25 4·98 5·05 5·08 5·11		25	2 2 2 2 2	22·4 27·7 23·9 23·0 24·2	M M R R
May 15 16 20 June 12 19	5·0 5·7 5·3 5·2 5·0	18 54 54 54 54 54	7·31 7·49 7·20 7·44 · 7·19		135	0 0 0 0	39.6 41.5 41.2 41.2 41.3	R M M R	May 29 June 1 10 21 24	5·7 5·7 5·9 	14	4 4 4 4	10.87 10.74 10.86 10.95 10.94		105	43 43 43 43 43	26·7 26·4 27·8 26·0 27·6	M M M R
545	1	ı	irginis	τ	<u>.</u>				551			5O <i>I</i>	Hydro	в.				
May 21 July 13 15		13 55 55 55	26·28 26·28 26·35	 	87	51 51 51	48·5 49·6 52·2	C.R.	May 8 15 June 11 July 10	5·0 5·0 5·2	14	5 5 5	46.65 46.53 46.79		116	41 41 41	8·9 8·5 9·7	R R M
546	,	h.	Hydræ.	•	,			,	11	5.8		5 5	46·82 46·77			41 41	8·6 12·4	C.R
May 4 6 10	5·5 5·5	13 55 55 55	26·57 26·61 26·47	•••	116	50 50 50	21·7 21·1 21·7	R R	552		7	'ay l	or 66	16.				
June 13 July 9	6·0 5·2	55 55				50 50	22·5 23·0	M C.R	July 8	5.2	14	6	28.15		146	30	48.2	C. R
547	·	γ 0	entaur	i.	<u>'</u>				553		17	Boot	tis k-	-2n	d.			
May 8 25 27 June 5 July 6	5·0 5·3 5·4 5·1 5·2	13 58 58 58 58	36·27 36·22 36·14		130	35 35 35 35 35	38·9 39·1 39·0 39·2 38·5	R M M M	May 31 June 19 20 July 13		14	9 9 9 9	6:66 6:41 6:48 6:58		37	38 38 38 38	18·8 18·3 19·1 18·7	M R R C.R
548	<u> </u>	49	Hydræ	π	<u>'</u>				July 6	4.7		9	21·70 21·18	5	,		44·4 44·0	
May 15 23 24		13 59 59	<b>25·5</b> 8		116	5 5 5	36·4 36·6 38·2	R	555	102	R		liffe :	<del></del>	).		44 U	J
June 3		59 59	25.57			5	37·4 38·2	M M	July 12 15	5.0	14		48·23 48·12	1	19	59 59	38·0 40·5	

Number and Date.	Magnitude.			Right sion '8.	No. of Wires.		ean I Dista 1878		Observer.	Nun ar Da	ıd	Magnitude.				No. of Wires.		an P listar 1878	nce	Observer.
556	16	Bo	otis	a, A	rctu	rus.				56	2			<b>52</b> .	Hydro	æ.				
May 16		14	10	5.83		70	10	52.4	м	June			14	21	1.95		118	56	32.3	м
30	•••		10	5.81			10	55.6	М		21		<u> </u>	21	1.85			56	30.8	R
June 8	•••		10 10	5 96 5·89			10 10	55·7 57·2	M	56	3			23	Bootis	θ				
24			10	5.84			10	53.7	M R				,				,			,
25			10	5.81			10	53.3	It	July	15		14	21	2.45		37	35	5.8	c.r
Aug. 3			10	5.89		1	10	54.3	M	56	4			A	inon.					
			10	n : .	,					Мау	25	9.5	14	21	40.14	l	93	50	23.9	1
557		•	19.	Bootis	λ						27	9.6	1-	21	40.17		30	50	23.9	M
June 21		14	11	44.664		43	21	1.7	R		28	9.6		21	39.92			50	22.9	M
26	4.0		11	44.75	٠		21	2.9	R	June		9.0		21	39.99			50	21.3	R
				The property of the second	·				·	July	6	9.5	<u> </u>	21	40.05			50	22.8	C.R
558		Ą	r C	entau	ri.					56	5		10	5 V	irgini	s ф				
June 12	5.0	14	13	8:50	,	127	19	23.4	M	June	25		14	21	54.92	1	91	40	477.7	١ ـ
13	5.8		13	8.63			19	22.5	M		27	5.0		21	54.93		31	40	47·7 47·9	R
July 10	4.3		13	8.43			19	21.1		July	9	5.3		21	54.99			40	48.9	c.R
11	5.0	<u> </u>	13	8.58			19	22.2	C.R	56	6		<b>'</b>	σ	Lupi.	1	<u> </u>			
559		а	Ce	entaur	ī.					Мау		6.0	14	24	24:35	1	139	54	£1.6	
June 3	5.3	14	15	31.69	[	128	57	12.1	M	June		5.4		24	24.47		100	54	51·6	M
4	5:0		15	31.65			57	12.2	M		19	5.0		24	24.33			54	52.0	R
5	50		15	31.44			57	12.4	м		26	5.0		24	24:35			54	53.2	R
July 8	5.2		15	31.69			57	13.3	c.r	July	11	5.3	1	24	24.51			54	52.0	C.R
9	5.0		15	31.59	]		57	11.3	C.R	56	7		7	Tayl	or 67	86.			***************************************	<del></del>
560			$ au^1$	Lupi.						June	4	7.5	14	26	24.47		146	1	31.3	м
June 1	5.3	14	18	18.76		134	40	6.4	×											<del>`</del>
10	5.7		18	18.80			40	2.3	M	5,6	В		2	25 E	Bootis	ρ				
18	5.0		18	18.78			40	6.3	R	Мау	20		14	26	34.34	<b> </b>	59	5	31.0	м
July 12	4.7		18	18.84	•••		40	5.0	C.R	•	21			26	34.30		"	5	30.0	м
											22		1	26	<b>34</b> ·30		1	5	30.8	ж
561			τ <sup>2</sup>	Lupi.						June				26	34.29			5	32.9	M
June 19	5.0	14	10	20.43	1	134	40	24			21	•••	1	26	34.35			5	32.7	R
29				20.48		104	49 49	34·5 34·4	R		24	•••		26	34.26			5	32.8	R
	5.0			20.60			49	32.4	R C.R		27 29	•••		26 26	34·35 34·86	•••		5 5	31·5 32·7	R
July 13								~~ <del>-</del>	V				1	úΟ	34 00		i .	מ	3377	R

Separate Results of Madras Meridian Circle Observations in 1878.

Number	ıde.			tight	Wires.	Mea	n Po	lar	<u>.</u>	NT	de.			Right	Wires.		ın Pe		.i
and Date.	Magnitude.		1878 m.		No. of W		878.	, e	Observer.	Number and Date.	Magnitude.	h.	1878 m.	si 011 3. <i>s</i> .	No. of W		istan 1878.		Орвегчег.
569			27 E	Bootis	γ '			!		576			31	Bootis	3.				
June 8		14	27	9.90	1	51	9	24 6	M	July 18	5.0	14	35	39.22		01	10	e4.0 l	_
13			27	10.02			9	26.6	м	29	3 U	14	35	39.22	4	81	18 18	54·3 55·9	C.R C.R
July 4			27	10.02			9	26.7	C.R.	1				05 25		!		000	
6			27	9.95	5		9	27.5	C.R	577		c	1 C	entau	ri.				
570		5 Z	Irsa	e Min	oris.					June 12	5.0	14	36	11.83	١	124	38	48.4	м
July 10		14	27	47.99	5	13	45	<b>3</b> 8•9	C.R	Jul <b>y</b> 9	4.7		36	11.93			38	48.2	C.R
12			27	48.02	4		45	42.2	1	10	5.2		36	11.93			38	48.0	C.R
16	•••		27	48.10	5		45	40.3	C.R	578		·	2 (	enta:	ıri.				
571			28 ]	Bootis	σ							1			,				
June 18	5.0	14	29	22.22		59	43	26 6	R	July 12	6.0	14	37	30.63		124	40	24.7	C.R
19	5.0		29	22.16			43	26.5	R	579			34	Booti	s.				
20	5.0		29	22.26			43	26.7	R		•	,			,				
July 8 15	5.7		29 29	22·40 22·10			43 43	25·9 26·6		June 8	4.9	14	38	3.22		62	57	10.0	M
	104	<u> </u>		22 10	]		40	20 0	10.1	13 July 16	4·8 5·7		38 38	3.62			57	9.7	М
572			ρ	Lupi.						- Oury 10	0 /	1		3.20	1	<u> </u>	57	8:7	C,R
June 1	5.2	14	29	41.24	1	138	53	33.4	1	580			<b>35</b> .	Bootis	0				
July 9	4.7	<u> </u>	29	41.40	1		53	33.6	c.R	June 28	4.5	14	39	32.74	1	72	31	3.2	R
573			l C	entau	ri.					July 15	5.0		<b>3</b> 9	32.85	4		31	6.1	C.R
May 31	5.4	14		23:10	1	127	16	5.5	. 1	581		36	Roo	tis €,	Mir	ae			
June 10 11	5.7		34 34	23·12 23·16			16 16	7:8 7:4	. 1				200	,,,					
20	5.0		34	22.92	1		16	8.0	1	May 20		14	<b>3</b> 9	39.49	1	62	24	37.7	M
22	5.0		34		1		16	7:7	1 -	23 June 24			39	39.61			24	38.3	M
						·			<u> </u>	June 24 July 8			39 39	39.60	1		24 24	38-1	R
574			29 1	Bootis	$\pi$					- July 6				39.67	1	<u> </u>	24	37.7	C.R
June 5		14		59.71	1	73	3	28:	5 м	582				Anon.					
25			34		4		3	28.1	-	T 00	1	1	4.0	w =. r =	ı	1	_	•• •	ı
27 July 4			34 34				3	29·4		June 22	5.0	114	40	17.01	1	116	6	39.7	R
July 4				59.65	. ) -		•		C.R C.F				56	Hydr	œ.				
575				Booti		<u>-</u> ــــــــــــــــــــــــــــــــــــ				June 15	5.5	14		37:34		115	34	29.9	M
June 3	[	14		19.59	, -	75	44	51	в∫ м	584	<del></del>	<u></u> -		Libræ	<u> </u>	<u>'</u>			_
21			35		4		44			100		_							
26				19.50			44			June 21		14		37:90		103	38	20.0	R
July 11			35		1		44		1	1 .	5.0			37.95			38		1
13	1	-	35	19.54	4 5	]	44	50.	7   C.I	29		]	42	37.89	)	]	. 38	22.2	R

[37.71]

Separate Results of Madras Meridian Circle Observations in 1878.

Numl and Date	ιļ	Magnitude.			Right sion 8.	No. of Wires.	D.	in P istar 1878		Observer.	Number and Date.	Magnitude.	Me A	an l scen 187: m.	Right sion 8.	No. of Wires.	D	an P istan 1878.	ce	Observer.
588	5			<b>5</b> 8 .	Hydro	e.					592		Ra	dcl	iffe 3	305.				
July	11 [	5.2	14	43	7.52		117	27	3.2	C.R	June 5	5.0	14	55	39.01	l l	23	34	49.6	M
					· · ·		<u></u>				15	5.3		55	38.95			34	52.1	М
586	5			0	Lupi.						July 10	5.2		55	38.80	5		34	50.9	C.R
June	1	5.0	14	43	40.88		133	.1	7.8	M	11	5.7	<u> </u>	55	38.77			34	52.7	C,R
1	11	5.4		43	40.93			-1	6.9	M			,	10	17:					
July	10	5.2		43	40.76	٠٠٠	1	4	6.6	C.R	593		1	10	Virgi	us.				
				0 T	ibræ o	. 1					June 8		14	56	44.14		87	25	41.8	N
58		ı				1				, '	11			56	44.23			25	42.0	м
May		•••	14		7:73		105	32	1·2 59·8	М	13			56	44.50	]		25	42.0	M
June	25		1	44 44	7·79 7·85			31 32	1.1	M R										
June	20 25			44	7.91			32	0.0	R	594			$\pi$	Lupi	•				
	26		1	44	7.87			32	1.0	R	June 20	5.0	114	56	49.18	l	136	34	19.0	R
	28			44	7.85			31	59.3	R	26	5.0	1."	56	49.03		100	34	20.0	R
July	12			44	7.92			31	59.8	C.R	29		1	56	49.13			34	19.4	R
											July 15	5.0	1	56	49.27	6		34	19.1	c.n
588	В		<b>37</b> .	Boo	tis <b>ξ²</b> -	2n	id.				16			56	49.26			34	18.3	C.R
June	10	4.7	14	45	45.86		70	23	29.1	м		·	·			·				
July	8	•••		45	45.89	6		23	29.5	c.r	595			20	Libra	3.				
	9	5.0		45	45.79			23	30.1	C.R							,			1
	13	5.2		45	45.69			23	28.8	c.R	June 12		14	56	55.87		114	48	3.8	M
58	0		,	Tani	lor 69	53					19 22			56 56	55·77 55·89			48	2·8 3·4	R
1	_	1					1.00	01	00.4	ſ ˈ	July 4			56	20.03	4		48 48	4.5	R C.R
June	3 22	5·9 5·5	14	48 48	15.85 15.73		123	21 21	33·4 32·3	M	6			56	55.89			48	3.7	C.R
	27	5.5	Ì	48	15.70			21	32.6	R			<u> </u>			1	<u> </u>			1
July	6	5.6	ł	48	15.61			21	32.6	c.R	596		Ra	Ia K	iffe 3	205				
	16			48	15.73			21	32.0	C.R	596						6			
590			<u>'</u>	15	Libræ	٤3	<u></u>				July 9	5.3	14	58	41.60	3	8	59	17:7	C.R
[{		ì	14			<b>5</b>	100	K.A.	67-6		597		4	3 7	Bootis	alc				
June	21		14	50 50	8·85 8·92		100	54 54	57·6 57·1	R R						•				
	25			50	8.92				58.4		May 23		14	59	13.07		62	34	31.3	M
July				50	8.00				56.6		25			59				34		×
						1	! 		<del></del>		27			59	13.07	1		34	32.5	M
59	1			16	Libro	е.					June 21 July 8	•••		59 59	13·05 13·35	1		34 34	33·3 32·4	C.R
June	4	<b>1</b>	114	50	48.96	l	93	50	53.9	M			1		27 00	1	}			J
l June	20		1		48.82		"		54.6	R	500			44	Bootis	: <i>L</i>				
	26		1		48.81		1	50		R	598			J. J. J.	20000	, -				
July					48.89				56.2	C.R	June 10		14	59	45.93		41	52	6.7	м

Separate Results of Madras Meridian Oircle Observations in 1878.

ľ	Number and Date.	Magnitude.	1	n Rig ensid 878.	1 '	No. of Wires.		n Pol tance 378.		Observer.	Numbe and Date.	1	Magnitude.		an R scens 1878 m.	ion	No. of Wires.	Di	n Postano 878.		Observer.
	599		Ta		705	,				,	June 2	5		15		26·50 26·51		98	-	52·5 52·0	R R
	July 11 12	6·0 6·2	15				144		47·4 46·1	C.R	July	9				26·50 26·53				52·4 53·7	R C.R
	600		κ	Lup	i—1s	t.					Aug.	1				26.59			55	52.0	м
11	June 19	5.0	15		27.47		138		19.5		608	:		49	Boot	is δ-	-1 <i>st</i>				
-	July 10	4.7	<u> </u>		27.64	5		16	18.6	C.R	June	24 26	 3·5	15	10 10	34·90 34·81		56	13 13	44·9 43·7	R R
	<b>601</b> July 13	i	15	i. P. 4	<i>L</i> . 13	3 <u> </u>		21	97.0	ß∫c.R	609	!		' S 1	ibro	e, Va	r. 5.	<u>.                                    </u>			
.  -	602	<u> </u>	10		Lupi.	-				, ,	July		9.8	15	14	23.73	6	109	56	47:1	c.r
	June 20	5.5	<b>1</b> 15		38·05	)	134	2	16:	9   R	l	12 13	9·8		14 14	23·88 23·78	i		56 56	49·3 47·6	1 11
	22 26	5·5 5·5		4	38·06 37·95		100	2	17:	2 R	610				φ2	Lup	i.	·		- <del></del>	
	603			βί	ircin	i.	<u>,                                     </u>				June	-	5.0	15		21.61	i	126	25 25	9·5	R
	July 15	5.8	15	7	58.73	١	148	20	37	3 c.	3	28 29	5·0 		15 15	21·59 21·56	1		25 25	10.0	1 1
	604			18 B	ootis	$\chi$	•				61	1		11	Ura	sæ M	inori	s.			
	June 21		15	9	23.28		60	22		-	1	11 15	5.0	l	17 17	12·1:	ı	1	43 44	59.2	C.R
	8	5.7	_1	9	23:33	<u> </u>	<u> </u>	22	54	·0   c.	-		107			L. 114					16,
	605 July 11	1 4.8		10 Lu	1 <i>pi-</i> 1 3:25		137	25	26	:7 C.	61 Jan.	<b>4</b> 5	۱	11.			1	1	18	3.8	м
	606				Lupi	-	1			• ) -	-	8 10			17 17	12:3	5 3		18 18	3.2	и
	June 11	.   4.	9   15		_		.   11:	9 4:	1 54	4.7   1	I Dec	14			17 17	12.6	4 3	1	18	3.8	M
	18	5 4.	9	10	24.4	2	. _	4	1 5	5.2	1	21		١	17		-   -	1	18		1
	607			27	Libro	e B					6:	13			51	Boot	is µ				
	May 2	- 1	. 14	10 10	26·6 26·5		- (	8 5 5		\	M Jun	e 13 22	"	- 1		9 52·9 9 52·9	1	1	2 11 11	37°	
	15			10 10		1	1		5 5	3.0	м —	24	1	- 1		9 53.	1	1		37	
	1' 1'	.		10	26.4	7   -	- 1	5	5 5	2·0 3·5	. 1	14		13	Urs	oe M	inori	sγ			
	2		]		26·5	- 1	. ]			2.0		y 18	<u>  .</u>	.	.5 2	0 55.	79   5	5   1	7 43	3 53.	4 c.B

Number and Date.	Magnitude.				No. of Wires.		an F istar 1878		Observer.	Number and Date.	Magnitude.	h.	enn 187 m.	Right sion 8.	No. of Wires.	D	an P istai 1878		Observer.
615	8	Cor	one	æ Bore	alis	β				621			3 1	Гирі 4	ر <sup>1</sup>				
June 4	4.4	15	22	48.18		60	28	21.9	M	July 10	5.9	15	82	1.31	6	124	0	42.3	G.R
15	4.9		22	47.88			28	22.8	м			<u>'</u>			<u> </u>				
17	4.0		22	48.04			28	20.0	R	622			g	Lupi.					
July 2	4.0		22 22	47·93 47·85	6	}	28 28	21·2 19·4	R	July 15	5.8	15	32	48.77	<b></b>	134	15	21.7	امما
	<u> </u>	Trai a			)	1750	20	154	J C.R	623		1		Lupi.	<u>'</u>	103		21.7	C.R.
616	<b>.</b>	ırıa	ny	uli Au	Siru	us.				020	i		"	_					
June 27	5.0	15	25	34.84	١	155	54	16.3	R	July 9	•••	15	34	42.76		127	1	55.1	C.R
July 6	4.7		25	84.69			54	17.1	C.R	624	7 (	N 0 30		Doman T	: ~ &	0			
10	5·2 4·5		25 25	34·79 34·81	5		54 54	14.8	C.R	,				Poreali	ν ζ-	1	a.		
15	5.2		25	34.95			54	15·1 16·6	C.R	June 13 July 8	6.0	15	34	47.22		52	58	0.4	м
<u>'</u>		!							J	July 6	5.3	<u> </u>	34	47:31	6	<u> </u>	57	59.9	C.R
617	ı		В.	H. 95	2.					625		15 Z	Trsa	e Min	oris	θ			
June 19	5.2	15	27	51.21	5	98	46	16.1	R	July 11	4.8	15	35	4.03	5	12	14	41.8	C.R
22 July 13	5·5 6·0		27	51.35			46	17:3	R	13	5.7		35	3.86	5		14	41.2	C.R
<u>-</u>		Car	27	51·36   x Bore	···	. 4	46	17.9	c.n	626		2]	Se	rpenti	s c				
618	4	Cor	one	e bore	aus	; 0				June 20		1 15	36	6.53	1	ا دم	۲.	0.0	l
June 24		15	<b>2</b> 8	0.77	•••	58	13	41.0	R	26		10	36	6.47		69	56 56	9·9	n R
25	•••		28	0.78			13	41.2	R	July 12			36	6.73			56	6.9	C.R
28	4.5		28	0.73			13	42.0	R			1							
July 8	5.0	<u> </u>	28	0.85	•••		13	40.6	C.R	627	ı		44 <i>i</i>	Libræ	η				
619	5 Core	næ	Box	realis	a, 4	Alphe	eta.			June 10	•••	15	37	12.84		105	16	56.1	м
June 3		15	29	31.39		62	52	24.2	М	628	8	Cor	ona	Bore Bore	alis	γ			
17	•••		29	31.47			52	23.5	R	June 17		15	37	97104	۱۰ ۱		7.0		١. ا
20 21			29 29	31·39 31·45			52 50	23.7	R	27	•••	10	37	37·24 37·30		63	18 18	59·7 58·7	R
26			29	31 48			52 52	23·6 24·2	R			<u> </u>		0, 00			10	00 7	R
July 12			29	31.28			52	23.4	C.R	629		24	Ser	penti	e a.				
Aug. 5			29	31.41				24.5	M	1				ponto	<i>5</i> W				
9			29					23.4	м	June 18	•••	15		15.20		83		21.1	R
12			29	31.45			52	24.1	ĸ	19	•••			15.51				20.9	R
620			<b>4</b> 0	Libræ						22 28	•••		38 38	15·63 15·58	<b>.</b>			21·1 20·5	R R
	ſ								,	29	•••		38	15.57				19.7	R
June 27 29		15			***	119		28.3	R	July 2	•••		38	15.24				21.0	C.R
July 2		1	31 31	9·84 9·99	5		22 22	29·7 29·9	R	6	•••		38	15.54				21.4	C. R
					0		22	20 8	U.K	10	•••		38	15.28			rŢ	20.2	C.R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.		Mean F Ascens 1878 . m.	ion i	No. of Wires.	$\mathbf{D}\mathbf{i}$	n Po stan 878.		Observer.	Number and Date.	Magnitude.	$\mathbf{A}\mathbf{s}$	an Ri censi 1878. m.	on	No. of Wires.		n Postano 878.		Орзегчет.
July 23 Aug. 6 9	1	5 38 38 38 38	15·53 15·50 15·51 15·53		83	11 11 11	18·2 19·2 19·0 20·1	C.R M M	637 July 13				88·06		5 κ 53	57	45-4	C.R
630	••• 1	27 Se		j   is λ			201		638 June 12			<b>4</b> 9 ·	i—1a 5-69	st. 	123	36	26.5	м
June 11 July 15	1	40	31·42 31·42	1	82	15 15	45·1 48·3	C.R.	13 July 15			49	5·66 5·90			36 36	25.3	C.R
631 June 20 22 28	4·0 4·0 4·0	35 S6 15 43 43 43	14.82 14.88 14.84		71	28 28 28	49·1 49·2 48·3	B	639 June 17 19 20 July 16	6·2 6·5 6·5	15	Lup 49 49 49 49	6·22 6·23 6·18 6·35	nd. 3	123	36 36 36 36	18·5 18·0 19·0 20·0	R R R C.R
632 July 11		riang 15 43		,		14	14.1	l C.R	640	·			oi—1	st.	1		45.0	
633 June 17	1 5-0 1	1 S	corpii 38:65	ъ.	1115	22	44.1		June 11 .22 26 July 9	4·8 4·5 4·5	15	52 52 52 52	2·41 2·29 2·19 2·40		128	2 2 2 2	45·3 46·8 47·6 46·4	M R R C.R
19 26 Aug. 5	5·0 5·0 5·7	43 43 43 43	38·63 38·52 38·58	3	113	22 22 22 22	42.7	R B	641	1	3 <i>Co</i>		e Bo		is €			
634	10	Coro			is δ				June 24 27 July 2		15	52 52 52	31·94 31·98 32·01		62	46 46 46	4·6 4·2	R R C.R
June 24 27 July 8	4.5 4.5	15 44 44 44	28·6	3 5	63	33 33	25° 24°	9 R 6 C.F	l			52 52	31·98 32·12	1		<b>4</b> 6	3.7	C.R C.R
635		38 <i>S</i>	28·5 erpen			33	23	3   c.1	<b>642</b> June 17	5.5	115	•	or 74 17:56		128	15	<b>3</b> 7·8	B
July 2 6 12	 4·5 6·0		54·4 54·4 54·8	8	68	39	15	0 c.1 5 c.1	July 8	5·5 5·3		55 55	17·58 17·71	3		15 15	36.1	R C. R
636	!	R. F	P. L.	115.				<u> </u>	643 June 15	5.0			rpent 2:40			51	22.7	и
July 9	· <del>'·</del>	15 40 R. P. L				46	28	·3 c.	644	<del></del>	`	δΙ	Yorm	æ.	<u>'</u>			
Dec. 28		15 4				48	5 29	·5 R	July 11 15	4.7	15		52·3				24·2 25·7	

49.4 49.5 49.5

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.			Right sion 8.	No. of Wires.	D	an Pe istan 1878	ce	Observer.	Numb and Date		Magnitude.		an I cens 187		No. of Wires.	$\mathbf{Di}$	n Postano 1878.	ce	Observer.
645		8	Sco	rpii /	31	•				652			Ra	deli	iffe 3	511.				
June 18		15	58	20.75		109	28	10.9	R	July :	15	]	16	5	59.56	5	21	52	4.5	C.R
20			58	20.67			28	8.7	R		<u>`</u>	·	٦	0-1		2			····	
27 July 9			58 58	20.67 20.67	6		28 28	9·8 11·0	R C.R	653			T	Opi	hiuchi	O				1
July 9 10			58	20.65			28	9.6	C.R	June	5	[	16	7	57.09		93	22	43.9	м
16			58	20 67			28	9.7	C, R		6			7	56.98			22	43.1	м
23			58	20.65			28	8.6	C.R	1	12			7	57.06			22	42.3	м
Aug. 6			58	20.66			28	9.5	M		17			7	57:07			22	43.0	R
12			58	20.72			28	8.0	M	:	22			7	57.06			22	43.7	R
	)	)			1						28			7	57.10			22	42.9	R
646		1	0 6	corpii	<b>~2</b>					July	6			7	57.13			22	44.0	C.R
646		1	0 50	on pu	w						9			7	57.14			22	44.4	C.R
June 17	4:5	16	0	15.14		110	32	14:3	R		10			7	57.10			22	43.0	C.R
22	4.5		0	15.09			32	17:4	R		11	•••	Ì	7	57.02			22	44.2	C.R
28	4.5		0	15.03			32	17.2	R		12			7	57.15			22	43.1	C.R
July 2			0	15.13	5	1	32	14.3	C.R		13	•••		7	57.13			22	43.6	C.R
G	5.3		0	15.19		ł	32	14:5	C.B		16	•••		7	57.10			22	43.0	C.R
		<u> </u>			<u></u>	<u>'</u>			<del>'</del> -		23	•		7	57.14		ŀ	22	42.3	C.R
647			m $S$	Scorpi	i.					Aug.	9	•••		7	57.16			22	41.0	М
July 12	5.5	16	0	41.67		115	59	52.8	C.B	654	1			18	Scorpi	ii.				
648	·	R. <i>F</i>	. L	. 116-	-s. j	 v.				July	2		16	8	59:39		98	2	42.3	C.R
Jan. 18	1	16	1	50.99	3	4	21	2.7	(м	65	5			λ	Norma	e.				
22			1	50.35	3		21	3.0	M	June	18	5.5	16	10	48.21	1	132	22	27.1	l R
26		l	1	50.74	3		21	0.6	M	June	20	5.2	10	10	48 18			22	23.8	1
29			1	49.48	3	l	21	1.0	M		27	5.2		10	48.15			22	23.0	1
31	<u> </u>		1	49.50	3		21	0.7	M			100	<u> </u>			<u>'</u>				<u></u>
649			۲ ا	<b>Vor</b> ma	2.					65	6		. 5	3 O <sub>I</sub>	hiuch	iv				
	1 2.0	(			1	1110	10	10.0	1	Aug.	3		16	21	12.25	1	98	5	47.7	1
July 8	2.8	16		40.42		145	13	19.7	C.R	-	6		1	21	12.29			5	49.0	M
650		1	.3 S	corpii	$c^2$ .					65	7	21	Sec	rpi	ia, A	lnta	res.			
June 11	5.2	16	4	47.48	1	117	36	29.4	M	Juno	5	[	16	21	55.91		116	9	34.2	M
18	5.0			47.45	1			29.5	1		18			21	55.67		1	9	34.5	R
						<del>'</del>			<del></del>	July	8			21	55.93		1	9	34.5	C.R
i .			15 9	Scorpi	i alc					1	9			21	55.68		1	9	34.1	
651			4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 1					1	11	1	1	21	55.68			9	34.3	C-R
651				-								1	1			ŧ	1			
<b>651</b> June 20	5.0	16		19.80	;	99	44	47:3	R	]	13			21				9	33·3 34·7	1

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	1	n Ri ensi 878.	on.	No. of Wires.		n Po stanc 878.		Ohserver.	Number and Date.	Magnitude.		an Ficens 1878 m.		No. of Wires.	Dia	n Postano 1878.	e l	Observer.
July 16 27 Aug. 5		2	21 8	55·71 55·80 55·61		116	9 9 9	33·5 34·2 34·4	C.R. C.R	Feb. 6	22 		58	inoria 32·50 31·91	s ← 3 3	-s.p.	45 45	53·1 53·2	R R
658		W.	В.	E. 6	34.					13	•••		58	31.20	3		45	53.5	R
June 17 18 27	8.0 8.0		84	31·01 31·01 31·09		103	9 9 9	16.6 17.6 16.8	B B B	<b>666</b> Aug. 16	5.5	<i>La</i>   17		lle 71 50·18		157	2	13.9	R
659		49	2 H	ercul	is.	<u> </u>			<del></del>	667	3	6 0	ohiu	chi A	1	st.	_		
Aug. 3	5.9			26:19		40	49	53.9	М	Aug. 5	5·3 	17		50·55 50·62		116	28 28	19·2 19·3	M M
660		<b>4</b> 0	He	reuli:	sζ					668	6	4 <b>H</b> e	rcu	lis a,	Va	r. 1			
June 4 6 July 15 27			36 36 36 36	41·27 41·31 41·11 41·11		58	10 10 10 10	30·2 30·8 32·2 30·8	M C.R			17	9 9 9	4·99 5·16 5·14		75	28 28 28	7·2 4·5 6·4	C.R R R
	J	<u>.                                    </u>			··-	<u> </u>			10.2	669		4	2 0	phiuci	hi $\theta$				
661				Scorp					ı	July 11 Aug. 14		17		31·16	5	114	52 52	33·8 31·5	C.R R
June 12 13 15		16	43 43 43	36·53 36·46 36·19		127	50 50 50	9·8 9·2 10·0	7 M	670	<u> </u>	1		Aræ	_!	<u> </u>			
662		7	ayl	or 78	302.	<u> </u>				Aug. 15	3.0	17	15 15	7·63 7·70	1	146	15 15	33·7 33·4	R R
June 18 27	6·4 6·6	16	45 45	27·99 28·17		131	36 36		9 R	671	1	.!		Aræ.	<u>'</u>				
663		7	ayl	or 78	303.					Aug. 19 20	3.0	17	15 15	9·51 9·45	1	145	24 24	41.3 38.6	R R
June 17	7·0	16	45 45	29·98	1	131	. 35 35		- 1	670	<u>-1</u>		κ	¹ Ara	<del>'</del>				
664	1	,		phiu	,	,				July 27 Aug. 17 21	 5·0	17	16 16		3	140	31 31 31	10·2 9·3 9·2	C.R R B
July 24 27 Aug. 3		16	51 51		5   1		26 26 26	2	4 c.	673	1 00	5		phiuch					!
6	1	22.1		53·6 æ Mi		<u> </u>	26	5 0	·3 h	July 24 27 Aug. 3		17	23 23		3		51	57·5 59·1 58·3	C.R
<b>665</b> July 6				32·2			7 4	5 51	·1   0	6			28	58·44 58·43	5		51	58·1 57·4	M

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Right Ascension 1878.  h. m. s.	Di	in Poistan 1878.	ce	Observer.	Number and Date.	Magnitude.	As	n Right cension 1878.	No. of Wires.	Di	ın Pelstan 1878.	ce	Observer.
674		55 Ophiuchi a	,				681		La	caille 7	506.			,	
Aug. 14		17 29 16·26 29 16·24	77	20 20	55·9 55·4	R R	Aug. 14	7.2		48 47·47 48 47·38	1	116	44 44	54·4 54·2	R R
20		29 16.24		20	20.0	R		1 1 -	<u> </u>	10 1, 00	Ī		42	J-38 &	
21		29 16.24		20	55.2	R	682		La	caille 7	502.				
675		85 Herculis ι					Aug. 15	7:0	17	48 50.45		122	40	1.2	R
	1	1				1	17	<u> </u>		48 50.43	<u>J</u>		40	1.7	R
Aug. 30	4.0	17 36 1.16	43	55	38-5	R	683		Tayle	or 8300.	—1 <i>s</i> :	t.			
676		<i>Taylor</i> 8199.					Aug. 20	5.0	[ 17	51 15·18	1	120	14	16.8	R
Aug. 13	6.5	17 36 42.58 5	65	21	52.1	R	21	5.2	-	51 15.30	1	120	14	15.8	R
14		36 42.51	"	21	54.6	R	24	5.0		51 15·17	·	}	14	16.4	R
15	6.2	36 42 44	1	21	53.3	R	Sep. 3	5.0		51 15:43		130	14	17:4	R
16	6.4	36 42.56	l	21	53.2	R									
677		Taylor 8227.					684		. 32	Dracon	is Ę				
A 00	1	135 43 14.50	1 101	00		l _	Aug. 28	3.5	17	51 25.10	1	33	6	28.2	
Aug. 20 21	5·5 5·5	17 41 14·70 41 14·82	121	39 39	31·7 30·5	R	30	3.2	<u> </u>	51 25.13	•   •••	]	6	26.1	R
24	5.2	41 14.98		39	31.2	R	685		91	Hercul	is θ				
070		86 Herculis µ					Aug. 29	4.0	17	52 4.08	3	52	43	54.1	R
678		. So Mercans p	· .				Sep. 12	4.0		52 3.80	;		43	55.1	1
July 24		17 41 40.99	62	12	23.1	C.R			<del>-'</del>			<u> </u>			<del></del>
Aug. 14		41 41.08		12	22.5	R	686		57	7 Serper	itis i	5			
15 17		41 41 04		$\frac{12}{12}$	23·3 22·4	R	Sep. 4	5.0	17	5.4 2:45	,	93	40	50.3	۱ ۵
19		41 41.04		12	22.2	R	50). 4	100	1 1/	0-3 22-37	1	1 50	200		, R
26 30		41 41 11		12 12	22·9	R	687		6	6 Ophiu	chi.				
	<u> </u>	J	1				Aug. 31	1	17	54 12:14	ı	85	37	19.7	R
679		62 Ophiuchi y						<u></u>	1		1	<u> </u>			1
Aug. 28	4-0	17 41 46.48		7.4	42.8	R	688		69	Ophiuc	hi τ				
29	4.0	41 46.52	"		41.1		Aug. 30	5.0	17	56 26.3	3	98	10	40.1	R
680		Lacaille 7494.				<u> </u>	689		9	6 Hercu	lis.				<u> </u>
Aug. 5	7:0	17 48 17.52	122	27	7-4	м	Aug. 28	5.0	17	57 10:03	3	69	9	5 <b>5</b> ·8	R
13	7.0	48 17:37		27	7.4		Sep. 3	5.0		57 10.23				54.9	1

Separate Results of Madras Meridian Circle Observations in 1878.

691	Number and Date.	gnitu	20/0.	Dist	Polar tance 878.	Observer.	Numbe and Date.	Magnitude.	h.	ean Right ascension 1878.	No. of Wires.	D:	an Pola istance 1878.	
Aug. 13	Sep. 4	4.5   1	7 59 17·44 59 17·39	87 2	- 1		Aug. 21 28	5.2	18	10 24·92 10 24·80		117	5 4	6 R
Aug. 31   5·5   18   2   32·04     153   42   45·8   R   16     18   11   41·60   3   3   23   30·2   R   16     11   41·63   3   23   23·2   32·3   R   29   30·0   M   11   41·65   3   23   32·3   R   29   40·0   2   46·87     15   10·2   R   12     11   41·65   3   23   32·3   R   32·3   32·3   32·3   R   32·3   32·3   32·3   32·3   R   32·3	14 16	4·5 4·5	3 2 10·36 2 10·33 2 10·26	135 5	8 22·8 8 23·4	R R			18	11 41.02	3		28 28	S R
Aug. 28	Aug. 31	5.5 18	2 32.04	. 153 42	2 45.8	R	16 20 Mar. 2		18 1 1	1 41.60 1 41.52 1 41.65	3 3 3	3 2 2 2	3 29·9 3 32·4	R
Aug. 19   50   18   4   558     158   5   4.8   R   21   50   4   548     5   1.1   R   23   50   4   547     5   2.8   R   25   2.8   25   2.8   R   25   2.8   25   2.8   R   25   2.8   R   25   2.8   R   25   2.8   R   25   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8   2.8	29 Sep. 3	4·0 4·0	2 46·87 2 47·06	15 15	10.2	8 3	700		1	1 41·48 Anon.	- 1	2	30.0	м
Aug. 26   8.4   18   6   40.70     123   10   19.8   R   30   8.2   6   40.64     10   18.7   R   12   9.0   6   40.63     10   20.9   R   29   5.0   18   15   35.02     54   0   22.8   R   29   5.0   18   703   15   35.04     10   21.6   R   29   5.0   18   703   704   24   Ursæ Minoris—s.p.	Aug. 19 21	5·0 18	4 5.53 4 5.48	153 5 5	1.1	;  -	26 Sep. 12	7.0	12	35·27 35·25		32	12.7	R
20   6 27.89   5 18.3   R   Aug. 29   5.0   18 14 9.40     65 36 11.1   R   31 5.0   14 9.43     36 11.0   R   31 5.0   14 9.58     36 11.0   R   30   8.2   6 40.64     10 18.7   R   12 9.0   6 40.63     10 20.9   R   Sep. 4 8.8   6 40.69     10 20.9   R   Sep. 3   4.5   15 35.04     54 0 22.8   R   Sep. 3   4.5   15 35.04     0 21.6   R   Sep. 3   5.0   10 20.9   R   Sep. 4   5.0   18 7 18.64   170.85   18 16.85   18 17.86     10 20.9   R   Sep. 3   4.5   18 15 35.04     0 21.6   R   Sep. 3   4.5   15 35.04     0 21.6   R   Sep. 3   4.5   35.04     0 21.6   R   Sep. 3   3.0   3.	Aug. 13	18	6 27.86	111 5	-0.0			5.0				4 6	85·4	R
30 8·2 6 40·64 10 18·7 R Sep. 4 8·8 6 40·69 10 19·5 R 12 9·0 6 40·63 10 20·9 R  Sep. 3 4·5 18·60·4 54 0 22·8 R  104 Herculis A.  704 24 Ursæ Minoris—s.p.	696		-, 00	1	-	-	31	5.0	14	9.43		36	11.0	R
697 104 Herculis A. 704 24 Ursæ Minoris—s.p.	30 Sep. 4	8-2 8-8	6 40·64 6 40·69	10 10	18.7 R 19.5 R	A	lug. 28	4·5 (1	.8 15	35.02	54			- 11
					24.9				Ursæ .	Minoris-	-s.p.		U	

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Mean Ascer 187	asion	No. of Wires.	D	an P ista 1878		Observer.	Numbe and Date		Magnitude.		ean I scen 1873	8.	No. of Wires.	D	an P istar 1878	ice	Observer.
705	=	Radel	iffe 39						713			<u> </u>		x a, I					_
Aug. 30	5.0	18 18	25.35	١	40	56	20.3	R	Aug. 1	16		18	32	48.39	1	51	19	<b>38</b> ·0	R
	"	1-0		1	1					19		10	32	48.44		01	19	42.6	B.
706		1	4non.						2	24	•••		32	48.43			19	41.7	R
Aug. 14 16	8·3	18 19 19	9·45 9·55		121	26 26	26·0 25·4	R R	714				2 /	4quild	e.				
		'	avoni	<u>.</u>	000		-		Aug. 2	28	5.0	18	35	35.66		99	10	1.8	R
707		V	avoni	5.						29	5.0		35	35.66			9	59.5	R
Aug. 15	5.0	18 19	58.47		152	21	7.6	B	•	3	5.2		35	35.78			10	1.1	R
19	5.0	19	58.59			21	8.9	R		4	5·0		35	35.69	•••		10	0.3	R
21	5.0	19	58.66	3	]	21	7.3	R		18	50		35	35.70		<u> </u>	10	2.4	R
708		39 Di	-aconi	s b.					715				θΡ	avoni	s.				
A 00	1 5.0	18 22	7:54	ſ	31	10	10.0	١	Aug. 1	15	5.0	18	36	37.75		155	12	0.0	R
Aug. 28	5.0	18 22 22	7:65		οι	16 16	10·2 8·9	R R				<u>!</u>			!	<u> </u>			<u>'</u>
Sep. 4	5.0	22	7.63			16	8.2	1 1	716				3 A	lquila	3.				
										ا م	٠	1.0	15.0	F0.07	1	ا م	00	05.4	1 _
709		v¹ S	agitta	rii.					Aug. 3	50	5.2	18	30	52.67		98	23	35.4	R
A 00		110 09	4.61	I	123	4	0.4		717			46	ית ז	raconi	ie e				
Aug. 20 23	5.5	18 23 23	4.65		(20)	4	2·4 2·1	R	1.1				201	000101					
24	5.5	23	4.64			4	2.4	R	Sep.	4	5.0	18	40	16.23		34	34	57-2	R
Sep. 3	5.2	23	4.60	:: <b>:</b>		4	1.2	R		,		11.1			'		en l'orien		
12	5.5	23	4:50			4	1.8	R	718	;		5.	Lyr	æ ε²−	-1st				
710	<u>!</u>	υ <sup>2</sup> S	agitta	rii.				<u></u>	Aug. 2	29	5.0	18	40	20.02		50	30	49.2	R
Aug. 29	5-5	18 25	57:38		123	6	16:1	R	719			1	10 .	Hercu	lis.				
711		1 A	<b>l</b> quilæ	).					Aug. 2	21		18	40	24:60		69	34	7.2	R
	l	i				19	.1.	1	_	23			40	24.61			34	8.7	R
Aug. 28	•	18 28	33.97		98	20	38.7	R		24	•••		40	24.66	٠		34	7.2	R
S 9		28	33.97			20	37.4	R	Sep. 1	12			40	24.51	5	<u> </u>	34	7.0	R
Sep. 3	•••	28 28	34·01 33·96	•••		20	38.0 38.0	R				,	7 T-		2				
12		28		4		20	40.9	R	720	'		Ī	ı Lį	yræ ζ	-				-1
			<b></b>		<u></u>			<u> </u>	Aug. 3	31	5.2	18	40	36.24		52	31	54.2	R
712	R	adeliffe	g 3983	2	nd.							<u> </u>	6 4	lq ui læ	l		e gageryane de Februarie		
Aug. 21	5.0	18 31	10.69		37	44	31.2	R	721			_	U A	rd mont	,,				
23	5.0	81				44		R.	Aug. 2	28		18	40	42.07		94		36.2	
31.	5.0		10.62				31.2	R	Sep.		•••		40	42.24			52	34.5	R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date   S		
Aug 14 5 to 18 42 58 26 142 14 38 to 18  723	Number and Date. By Mean Right Ascension 1878. Constance 1878. As m. s. Constance 1878.	Date. 5 1878. 5
Ang. 14   5-5   18 42 55-26     142 14 38-0   R	722 κ Telescopii.	731 63 Serpentis θ—1st.
Sep. 18   5·0   18   43   59·60     37   8   41·5   π         Aug. 20   5·5   18   5·0   31·73     96   0   9·2   π         Aug. 20   5·5   5·0   31·73     96   0   9·2   π         Aug. 15   5·0   18   44   21·63     15·7   22   5·5   π         Aug. 15   5·0   44   21·73   3   22   5·7   π         Aug. 15   5·0   44   21·73   3   22   5·7   π         Resp. 3   5·5   5·0   31·92     0   9·1   π         Aug. 15   5·0   44   21·75     22   5·7   π         Resp. 3   5·5   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·92     0   0   9·1   π         Aug. 15   5·0   31·	Aug 14   5.5   18 42 58.26     142 14 38.0   E	la or law law .
724	723 Radeliffe 4070.	732 9 Aquilæ.
Aug. 15   50   18 44   21 63     157   22   57 6   R   22   57 6   R   22   57 6   R   22   57 6   R   24   21 73   3   22   57 6   R   25   733   R. P. L.   131.	Sep. 18   5.0   18 43 59.60     37 8 41.5   B	Aug. 20   5.5   18 50 31.73     96 0 9.2   R
Aug. 15       5°0       18       44       21°63        157       22       58°9       R         725       10 Lyræ β, Var. 1.         Aug. 17        18       45       34′49        56       46       39°6       R         20        45       34′52        46       40°2       R         21        45       34′56        46       40°2       R         22        45       34′56        46       40°2       R         23        45       34′56        46       39°7       R         26        45       34′56        46       39°7       R         26        45       34′56        46       39°7       R         31        45       34′56        46       39°7       R         Sep. 3        45       34′56        46       39°7       R         726        34       34′56        <	724 ĸ Pavonis, Var.	90 F.F. TO ST. W.
16	Ang 15 1 5:0   18 44 21:63     1877 02 50:0	Son 2 FIF TO OF ON
725	16 5·0 44 21·73 8 22 57·6 R	733 R. P. L. 131.
Aug. 17   18 45 34'49   56 46 39'6   R   20   45 34'52   46 40'2   R   21   45 34'49   46 38'6   R   22   45 34'49   46 38'7   R   23   45 34'46   46 39'7   R   25   45 34'46   46 39'9   R   28   45 34'46   46 39'9   R   31   45 34'56   46 39'7   R   31   45 34'56   46 39'7   R   31   45 34'56   46 39'7   R   31   45 34'56   46 39'7   R   31   45 34'56   46 39'7   R   31   45 34'56   46 39'7   R   32   45 34'56   46 39'7   R   33   45 34'56   46 39'7   R   34 Aug. 28   18 55 9'83   95 54 32'2   R   30   55 9'86   54 29'8   R   30   55 10'11   54 29'9   R   20   55 10'15   54 31'5   R   21   55 10'05   54 31'5   R   21   55 10'05   54 31'5   R   22   18 47 44'48     112 49 16'3   R    727	22 37 8 R	Aug. 15     18 54 38 86   3   8 26 51 9   R
20 45 34 52 46 40 2 R 21 45 34 56 46 40 2 R 22 45 34 49 46 38 6 R 23 45 34 46 46 38 7 R 24 45 34 46 46 38 9 R 25 45 34 46 46 38 9 R 31 45 34 46 46 38 9 R 31 45 34 46 46 38 9 R 31 45 34 46 46 38 9 R 31 45 34 46 46 38 9 R 31 45 34 46 46 38 9 R 31 45 34 50 46 38 9 R 31 45 34 50 46 39 7 R Sep. 3 45 34 46 46 39 7 R Sep. 3 45 34 46 46 39 7 R Sep. 3 45 34 46 46 39 7 R Sep. 3 45 34 46 46 39 7 R Sep. 3 45 34 50 46 39 7 R Sep. 4 55 10 11 54 29 9 R 20 55 10 05 54 31 5 R 21 55 10 8 47 44 48 112 49 16 3 R Sep. 2 5 5 18 56 55 80 158 36 32 6 R  736 Lacaille 7944. Sep. 2 5 5 18 56 55 80 158 36 32 6 R Sep. 4 59 48 07 76 18 57 1 R Sep. 20 5 0 18 48 50 65 37 10 52 6 R Sep. 4 59 48 07 76 18 57 1 R Sep. 47 Draconis 0.  Sep. 18 5.0 18 49 23 95 30 45 36 6 R 21 5 0 49 24 07 45 35 4 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R 21 5 0 49 24 07 45 35 4 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R 21 5 0 49 24 07 45 35 4 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R 21 5 0 49 24 07 45 35 4 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R 21 5 0 49 24 07 45 35 4 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 18 5.0 18 49 23 95 30 45 36 6 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 37 44 129 31 54 0 R Sep. 20 18 38 50	A	734 48 Draconis.
21 45 34.56 46 40.3 R 22 45 34.49 46 38.6 R 23 45 34.49 46 38.8 R 24 45 34.46 46 38.8 R 28 45 34.46 46 39.9 R 31 45 34.56 46 39.9 R 31 45 34.56 46 39.9 R 31 45 34.56 46 39.9 R 31 45 34.56 46 39.9 R 31 45 34.56 46 39.9 R 32 45 34.56 46 39.9 R 33 45 34.56 46 39.9 R 34 55 10.11 54 29.9 R 35 Sagittarii v²  Aug. 29 5.0 18 47 44.48 112 49 16.3 R  726	20 45 24:50 H	Aug. 29     18 54 41:21   32 20 45:0   -
22 45 34'49 46 38'6 R 23 45 34'46 46 39'7 R 26 45 34'46 46 39'9 R 31 45 34'56 46 39'7 R Sep. 3 45 34'50 46 39'7 R Sep. 3 45 34'50 46 39'7 R Aug. 29 5'0 18 47 44'48 112 49 16'3 R  726 35 Sagittarii v  Aug. 29 5'0 18 47 45'42 150 21 30'0 R Sep. 20 5'5 18 56 55'80 18 59 48'07 76 18 57'1 R Sep. 20 5'0 18 48 50'65 37 10 52'6 R  729 47 Draconis o.  Sep. 18 5.0 18 49 23'95 30 45 36'6 R 21 5'0 18 49 24'07 45 35'4 R  Aug. 14 5'0 19 1 37'51 129 31 54'0 R  738 B Coronæ Australis.  Aug. 14 5'0 19 1 37'51 129 31 54'0 R	21 45 24:56 10 40 40 2 R	91 02 20 45 0 R
23	22 45 34:40	
28 45 34·46 46 39·9 R 31 45 34·56 46 39·7 R Sep. 3 45 34·56 46 39·7 R Sep. 3 45 34·50 46 39·7 R Sep. 3 45 34·50 46 39·7 R Sep. 3 45 34·50 46 39·7 R Sep. 3 45 34·50 46 39·7 R Sep. 4 55 10·11 54 29·9 R Sep. 4 55 10·05 54 31·5 R  20 55 10·08 54 32·1 R  726	23 45 34·55 46 39·7 R	735 12 Aquilæ.
25 45 3446 46 39.9 R Sep. 3 45 34.56 46 39.7 R Sep. 3 45 34.56 46 39.7 R Sep. 3 45 34.50 46 39.7 R Sep. 3 45 34.50 46 39.7 R  726		Aug. 28     18 55 9:83   OF 74 70:0
Sep. 3        45 34·50        46 39·7 R 246 39·7 R 200       Sep. 4        55 10·11        54 29·9 R 29·9 R 200        55 10·05        54 31·5 R 29·9 R 200        20        55 10·05        54 31·5 R 29·9 R 200        55 10·05        54 31·5 R 29·9 R 200        55 10·06        54 32·1 R 29·9 R 200        55 10·06        54 32·1 R 29·9 R 200        55 10·08        54 32·1 R 29·9 R 200        55 10·08        54 32·1 R 29·9 R 200        55 10·08        54 32·1 R 20·09        54 32·1 R 20·09        54 32·1 R 20·09        55 10·08        54 32·1 R 20·09        59 2 2 5·5 18 56 55·80        158 36 32·6 R 20·09        59 2 2 5·5 18 56 55·80        158 36 32·6 R 20·09        24       59 48·07        76 18 57·1 R 20·09        24       59 48·04       18 58·1 R 20·09        59 48·04       18 58·1 R 20·09        59 48·04       18 58·1 R 20·09        59 48·04       18 58·1 R 20·09        59 48·04       18 58·1 R 20·09       .	91 45 04 50 40 59 9 R	30 55 0:00 55 54 52 Z R
726	Sep. 3 45 24:50 40 39.7 R	Sep. 4 55 10:11
726	46 39.7 R	20 55 10·05 54 31·5 R
727	726 35 Sagittarii v²	21     55 10·08     54 32·1   R
727 ω Pavonis.  Aug. 30   5·5   18 47 45·42     150 21 30·0   R  728 Radcliffe 4109.  Sep. 20   5·0   18 48 50·65     37 10 52·6   R  729 47 Draconis ο.  Sep. 18   5.0   18 49 23·95     30 45 36·6   R 21   5·0   49 24·07     45 35·4   R  8   16   5·0   1 37·44   21 5·11     129 31 54·0   R  16   5·0   1 37·44   21 5·11     129 31 54·0   R	Aug. 29   5.0   18 47 44.48     112 49 16.3   B	
728     Radeliffe 4109.     Ang. 22      18 59 48·07     76 18 57·1 R       Sep. 20   5·0   18 48 50·65     37 10 52·6 R     Sep. 48     59 48·04     18 59·48·05     18 58·1 R       729     47 Draconis o.     Sep. 47 Draconis o.     738     B Coronæ Australis.       Sep. 18   5·0   18 49 23·95       30 45 36·6 R     Aug. 14 5·0   19 1 37·51     129 31 54·0 R       16   5·0   1 37·44       18 57·1 R       24     59 48·04     18 58·1 R       20     59 48·05     18 58·0 R	727 w Pavonis.	Sep. 2   5.5   18 56 55.80     158 36 32.6   R
728 Radeliffe 4109.  Sep. 20   5.0   18 48 50.65     37 10 52.6   R  729 47 Draconis o.  Sep. 18   5.0   18 49 23.95     30 45 36.6   R 21   5.0   49 24.07     45 35.4   R	Aug. 30   5.5   18 47 45.42   150 21 20.0	
Sep. 20   5·0   18 48 50·65     37 10 52·6   R   Sep. 4     59 48·04     18 58·1   R   Sep. 4     59 48·04     18 58·1   R   Sep. 4     59 48·04     18 58·1   R   20     59 48·05     18 58·1   R   20     18 58·1   R   20     18 58·1   R   20     18 58·1   R   20     20     18 58·1   R   20     20		1 2 20 30 07   70 18 57.1   R
Sep. 20   5·0   18 48 50·65   37 10 52·6   R   Sep. 4   59 48·05   18 58·1   R   18   18   18   18   18   18   18	728 Radcliffe 4109.	30 40 10 18 57.2 R
729 47 Draconis o.  Sep. 18   5.0   18 49 23.95     30 45 36.6   R 21   5.0   49 24.07     45 35.4   R    18     59 48.04     18 58.1   R   20     59.4 8.05     18 58.0   R    738   B Coronæ Australis.  Aug. 14   5.0   19 1 37.51     129 31 54.0   R    16   5.0   1 37.44   21 5.51	Sep. 20   50   18 48 50/65   1 07	Sen 4 50 40-05 18 58'1 R
729 47 Draconis o.  Sep. 18   5.0   18   49   23.95     30   45   36.6   R   21   5.0   49   24.07     45   35.4   R   24   37.44   21   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   21   5.0   1   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   31   5.0   31   37.44   37.44   37	. 37 10 52.6 в	10 50 B
21   5·0   49 24·07     45 35·4   B   Aug. 14   5·0   19 1 37·51     129 31 54·0   R   16   5·0   1 37·44   21 5·11	729 47 Draconis o.	00 10 50 1 R
16 50 1 37.44 21 5.0 R	01   100   10	738 \$ Coronæ Australis.
16 5.0 1 37.44 27 5.3	45 24.07     45 35.4 R	- 0, 01 125 01 540 R
730   13 Horavije   15	730 113 Herculis.	16 5.0 1 37.44 31 55.1 R
1 1 37.49   21 55.1		Son 2 50 - 85 51 55'1 R
50 18 49 3610 67 30 28·7 R 19 5·0 1 27/10	Sep. 4   5.0   18 49 36.10     67 30 28.7   R	10 8.0 01 05 4 1
1 3/ 52     31 56·0   R		- 1 22 97 99.0 K

Separate Results of Madras Meridian Circle Observations in 1878.

						<del></del> -			<del>-</del>								-
Number and Date.	Magnitude.	Mean Right Ascension 1878.  h. m. s.	No. of Wires.		n Postano 1878.	ce	Observer.	Number and Date.	r	Magnitude.	Asc	Right ension 378.	No. of Wires.	Di	n Postan 1878.	ce	Observer.
739		τ Pavoni.	s.					747			a S	Sagittai	rii.				
Aug. 15	5.2	19 3 22·12		159	23	37.3	R	Aug. 14	, [	4.0	19 1	25.76		130	50	34.5	R
23	5.2	3 22:09		:	23	39.4	R							<u>'</u>			
26	5.2	3 22.28			23	38.7	R	748			47 S	igittari	$i \chi$	Ĺ			
28 Sep. 2	5·5 5·5	3 22·19 3 22·45			23 23	41·2 39·2	R R	Aug. 30	. 1	5.2	19 1	7 50.98	ſ	114	44	34.7	R
Sep. 2	8.9	3 22 45			20	39 Z	16	Sep. 4	- 1	5.2	19 1			114	44	36.2	R
740		53 Dracon	is.					18	- 1	5.2	î				44	36.4	R
	,			,			,	20	,	5.2	1			ł	44	36.4	R
Aug. 30	5.0	19 9 22.12		33	20	51.3	R	. 21	۱	5.5	1	7 51.14			44	37.3	R
Sep. 2	5.0	9 22:17			20	53.5	R				·		<u>'</u>	•			
3 18	5·0 5·0	9 22:10 9 21:99			20 20	54·3 53·2	R	749		2	Taylo	- 8907-	-2n	d.			
19	5.0	9 21.87				52.9	R	Aug. 15	; j		19 1	7 59.73		144	33	58.4	R
741		20 <i>Lyræ η</i> -	_1st					750			31	Aquila	·	!			
Sep. 4	5.0	19 9 36.54	1	51	3	43.1	R					_					
	1 ,	1	<u> </u>					Sep. 24	- 1	5.0	19 1			78	18	52.3	В
742		1 Vulpecul	lx.					25	'	5.0	1	9.08		<u> </u>	18	52.4	R
Sep. 21 25	5·0 5·0	19 10 58·47 10 58·28		68	49 49	24·4 24·4	R R	751			30	Aquila	δ				
743	<u> </u>	54 Dracon	is.	!			<u>.</u>	Aug. 19				9 20·75 9 20·73		87	7 7	35·0	R
Aug. 31	5.0	19 11 44.59	<b>]</b>	32	30	16.4	R	20	6	•••	1	9 20.75	1	ļ	7	34.8	R
Sep. 24	5.0	11 44.65	1		30	16.8	R	28	8		1	9 20.78			7	36.8	R
	<u> </u>		J	1	1 1441		<u> </u>	29			1	9 20.68			7	35.2	R
744		25 Aquilo	œω						2	•••		9 20.81			7	35.6	R
Aug. 15		19 12 5.37		78	37	21.5	R	1 10	3		1	9 20·79 9 20·69	1	1	7	36.0	R
21		12 5.28			37	20.0	R	19				9 20.70			7 7	33·3 34·9	R
23		12 5·31			37	20.1	R	19			1	9 20.75			7	35.6	
28		12 5.34			37	23.2	R						1				,
Sep. 10		12 5.83		<u></u>	37	18.7	R	752			58	Dracon	is $\pi$	•			
745		21 Lyræ	$\theta$					Aug. 21	1		19 2		1	24	3.1	9.5	R
Sep. 28		19 12 7.84		52	4	57.2	R	28	- 1	•••	1	0 2.38	1		31	11.9	R
30		12 7:79				56·1		24	1		2	0 2.38			31	11.4	R
746		1 Cygni	ĸ					753			32	Aquila	ע 3		•		1
Aug. 16	4.0	19 14 17:04		36	51		R	Aug. 31		5.2		0 16.99		89	54	9.5	R
17		14 16.97				18.2	R	Sep. 28		5.2	i	0 16.84			54	10.9	R
19	4.0	14 16 96			51	17.6	R	30	0	5.2	2	0 16.88		<u> </u>	54	9.7	R

Separate Results of Madras Meridian Circle Observations in 1878.

Number   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 2   Sep. 3   Sep. 4   S	1,																		
Aug. 30   5·0   19   26   37·79     38   81   48·1   R   Sep. 3   5·0   26   38·70     31   48·8   R   27   5·0   26   37·70     31   48·9   R   29   5·0   26   37·70     31   48·9   R   29   5·0   26   37·70     31   48·9   R   27   5·0   26   37·70     31   48·9   R   29   5·0   26   37·74     31   48·9   R   27   5·0   26   37·74     31   48·9   R   27   5·0   26   37·74     31   48·9   R   27   5·0   28·5   5·0   28   28·1     49·2   28·1     49·2   28·1     49·2   28·1     49·2   28·1     49·2   28·1     49·2   28·1     49·2   28·1     49·2   28·3   R   24·5   5·3   38·1   40·6     122   12   27·7   R   28·1   21   5·0   28·2   28·1     49·2   28·3   R   24·5   5·3   38·1   40·6     12   26·6   R   24·5   5·3   38·1   40·6     12   28·6   R   24·5   5·3   38·1   40·6     12   28·6   R   24·5   5·3   38·1   40·6     12   28·6   R   24·5   5·3   38·1   40·6     12   27·7   R   28·1     29·16·83     9·17   R   29·16·83     9·17   R   28·6     29·16·83     9·17   R   28·6     29·16·83     9·17   R   28·6   R   28·6     29·16·83     9·17   R   28·6   R   28·6     29·16·83     9·17   R   28·6   R   28·6     29·16·8     9·17   R   28·6     29·16·83     9·17   R   28·6   R   28·6     29·16·83     9·17   R   28·6	and	Magnitude.	As	cension 1878.	f.		Dista	nce 8.	Observer.	and	Magnitude.	1	Lsc 18	ension 378.	ಕ		Dist	апсе 78.	Observer.
Sep. 3	754		1	0 Cygn	i L²					760		Ra	dei	liffe 4	413	•			
18 5-0 26 37-70 31 43-9 R 19 5-0 26 37-70 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 26 37-74 31 43-9 R 29 5-0 37 Aquilæ k  755	n –					38	81	43.1	[ R	Sen 12	5.0	10	95	F4.00	1 _	1			
19   50   26 37*50   31 43*9   R   20   5*0   26 37*50   31 43*9   R   20   5*0   26 37*54     31 43*9   R   20   5*0   26 37*74     31 43*9   R   20   5*0   26 37*74     31 43*9   R   20   5*0   26 37*74     31 43*9   R   20   5*0   26 37*74     31 43*9   R   20   5*0   28 23*95     100 49 28*5   R   10   5*5   38 14*08     12 2 27   R   21 5*0   28 23*91     49 28*9   R   24 5*5   38 14*08     12 2 4*0   R   21 5*0   28 24*10     49 28*3   R   24 5*5   38 14*08     12 0*6   R   21 5*0   28 24*10     49 28*3   R   24 5*5   38 14*08     12 0*6   R   20   10   5*5   38 14*04     12 0*6   R   20   10   29 16*8     9 1*1   R   19     29 16*8     9 1*1   R   19     39 19*67     155 5*4 3*5   R   10     29 16*8     9 1*1   R   19     39 19*75     5*4 3*1   R   22 5 5*0   39 52*56     5*4 3*1   R   22 5 5*0   39 52*55     56 21*5   R   22 5 5*0   39 52*55     56 21*5   R   20 5*0   39 52*56     5*6 21*5   R   20 5*0   39 52*56     5*6 21*5   R   20 5*0   39 52*56     5*6 21*5   R   20 5*0   39 52*56     5*6 21*5   R   20 5*0   39 52*56     5*6 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*56     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*55     56 21*5   R   20 5*0   39 52*	11 -		1		1			45.8	R		1	13			1 -	35			f
761	II .					1			1						"				
755 37 Aquilæ h  Sep. 2 50 19 28 23 93 100 49 28 5 R 10 55 38 14 04 122 12 27 R Sep. 2 50 28 28 11 49 28 9 R 21 50 28 28 21 49 28 9 R Oct. 3 28 23 92 49 28 3 R Oct. 3 28 23 92 49 28 3 R Oct. 3 29 16 81 115 9 1 8 R Sep. 4 29 16 81 115 9 1 8 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 86 9 1 11 R Sep. 4 29 16 85 9 1 13 R Sep. 4 29 16 85 9 1 13 R Sep. 4 29 16 86 9 1 13 R Sep. 4 29 16 86 9 1 13 R Sep. 4 29 16 86 9 1 13 R Sep. 4 29 16 86 9 1 13 R Sep. 4 29 16 86 9 1 13 R Sep. 4 29 16 80 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 4 29 16 81 9 1 13 R Sep. 3 50 19 32 35 60 32 47 2 R Sep. 3 50 19 39 52 56 56 21 5 R Sep. 3 50 2 55 33 43 94 106 34 13 5 R Sep. 18 5 5 33 43 94 106 34 13 5 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 18 5 5 33 43 94 34 16 3 R Sep. 2 35 34 18 48 17 2 R Sep. 2 35 34 18 48 17 2 R Sep. 2 35 34 18 48 17 2 R Sep. 2 35 34 18 48 17 2 R Sep. 2 35 34 18 48 17 2 R Sep. 2 35 34 18 48 18 6 R Sep. 18 50 19 40 51 59 32 16 257 R Sep. 2 35 34 18 48 18 6 R Sep. 18 50 19 40 51 50 32 16 257 R Sep. 2 35 34 18 48 18 6 R Sep. 18 50 19 40 51 70 16 258 R	11	1 -	1	-,	1							. !		10 -	-			71.2	1 C.R
Sep. 2   50   19 28 23 93     100 49 28 5   R   21 5 0   28 23 93     49 28 9   R   24 5 5   38 14 03   112 07 6   R   21 5 0   28 24 10   49 28 9   R   24 5 5   38 14 03   112 07 6   R   21 5 0   28 24 10   49 28 9   R   24 5 5   38 14 03   112 07 6   R   21 5 0   28 24 10   49 28 9   R   24 5 5   38 14 03   112 07 6   R   21 5 0   28 24 10   49 30 3   C.R	<b></b>		<u> </u>	20 07,7±			31	43'6	R	761		$T_{i}$	<b>.</b> 717	ω <sub>2</sub> ΟΩ'	71				
Sep. 2   5-0   19 28 23-93     100   49   28-5   R   21   5-0   28   24-81     49   28-9   R   24   5-5   38   14-04     122   12   2-7   R   21   5-0   28   24-10     40   28-9   R   24   5-5   38   14-05     112   0-6   R   24   5-5   38   14-05     112   0-6   R   24   5-5   38   14-05     112   0-6   R   24   5-5   38   14-05     112   2-7   R   2-7	755		37	Aquila	2 <b>k</b>							41	vy u	01 001	11.				
12 5·0 28 23·S1 49 28·9 n 24 5·5 38 14·05 12 0·6 R 21 5·0 28 24·10 49 28·3 n 24 5·5 38 14·03 12 2·7 n 20·6 3 28 23·92 49 30·3 c.n 25 5·5 38 14·04 12 2·7 n 20·6 3 28 23·92 49 30·3 c.n 25 5·5 38 14·04 12 2·7 n 20·6 3 12 2·7		1		4	. 18						5.2	19	38	14.04		122	12	2.7	R
21 5·0 28 24·10 49 28·3 R 24 5·5 38 14·03 12 2·7 R 27 R 28 28·2 2 49 30·3 c.R 25 5·5 38 14·04 12 2·3 R 27 R 28 28·2 2 49 30·3 c.R 25 5·5 38 14·04 12 2·3 R 27 R 28 28 28 28 29 16·81 115 9 1·3 R 25 5·5 38 14·04 12 2·3 R 28 28 28 29 16·82 9 0·9 R 10 29 16·82 9 0·9 R 10 29 16·82 9 0·9 R 10 29 16·82 9 0·9 R 10 29 16·82 9 2·6 R 19 39 19·73 54 3·1 R 19 39 19·73 54 3·1 R 19 39 19·73 54 3·1 R 19 39 19·73 54 3·1 R 19 39 19·73 54 3·1 R 19 39 19·73 55 3·1 R 19 19 39 19·73 55 3·1 R 19 19 39 19·73 55 3·1 R 19 19 39 19·73	13	1	1			100	49	28.5	R		1 -		38	14.08			12	4.0	R
Oct. 3     23   23   23   22     49   30   3   c.   c.     25   5   5   5   38   14   04     12   27     R	11	1	1				49	28.9	R								12	0.6	R
756	ii -	1	1						R			-	_				12	2.7	R
Aug. 23		<u> </u>	] 2	8 23.92	•••		49	30.3	C.R		9.9	<u> </u>	38	14.04	•••		12	2.3	R
31 29 16·86 9 1·1 b Sep. 4 29 16·86 9 0·9 b 10 29 16·86 9 0·9 b 24 29 16·86 9 2·6 b 24 29 16·86 9 2·6 b 24 29 16·80 9 2·6 b 28 29 16·82 9 1·3 b 28 29 16·82 9 1·3 c  763	756		52 S	agittarı	ii h²	1				762		La	car	ille 81	95.				
Sep. 4     29   16 86     9   11   E   19     39   19 73     18   54   3 1   E   10     29   16 82     9   0.9   E   24     29   16 86     9   2.6   E   24     29   16 82     9   1.3   E   E   E   E   E   E   E   E   E	Aug. 23		19 2	9 16.81	<b> </b>	115	9	1.3	R.	Aug. 15	1	19	20	10.67	ı	( 7	- 1	a - w	1 - 1
Sep. 4        29 16·32        9 0·9 R S 58·7 R S 58·7 R S 58·7 R S 24       29 16·32        9 2·6 R S 58·7 R S 29 16·32       763       15 Cygni.         28        29 16·32        9 1·3 R S 58·7 R S 50·1 R S 50·1 S 50·2 S 50·3 R S 50·3 R S 50·3 R S 50·3	11		2				9	1.1		_	1	1			•••	199			1 1
24 29 16·81 9 2·6 R 28 29 16·82 9 1·3 R  757 61 Draconis σ  Sep. 3 5·0 19 32 35·60 20 32 50·3 R 17 5·0 32 35·59 32 47·2 R 25 5·0 32 35·62 32 49·4 R  758 54 Sagittarii e¹  Aug. 29 5·0 19 33 43·94 106 34 13·5 R 30 5·0 33 43·94 106 34 13·5 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 15·3 R 21 5·5 33 43·91 34 14·6 R  759 6 Sagittæ β  Aug. 28 19 35 34·10 72 48 17·6 R 28 35 34·10 72 48 17·6 R 29 48 18·3 R 26 40 27·59 40 56·7 R 27 48 18·3 R 28 35 34·10 72 48 17·6 R 29 48 18·3 R 26 40 51·70 40 51·59 40 56·7 R  765 Radeliffe 4446.	41		i			ļ	9	0.9	R		1	!			•••	<u> </u>		91	1 16
28 29 16·82 9 1·3 R  Ang. 21 5·0 19 33 52·56 52 56 19·6 R  Sep. 3 5·0 19 32 35·60 20 32 50·3 R  17 5·0 32 35·59 32 47·2 R  25 5·0 33 43·89 106 34 13·5 R  Sep. 18 5·5 33 44·01 34 12·3 R  20 5·5 33 43·94 34 14·3 R  21 5·6 33 43·94 34 14·3 R  21 5·6 33 43·94 34 14·3 R  21 5·6 33 43·91 34 14·6 R  Ang. 28 19 35 34·10 72 48 17·6 R  Sep. 2 35 34·13 48 17·2 R  28 35 34·12 48 18·6 R  30 5·0 35 34·15 48 18·6 R  30 5·0 35 34·15 48 18·6 R  30 5·0 40 51·59 40 51·59 40 56·7 R  28 35 34·12 48 18·6 R  30 5·0 40 51·70 16 25·3 R	11						8	58.7	R	760			<b>1</b> P	<i>a</i>					
757 61 Draconis σ  Sep. 3 5·0 19 32 35·60 20 32 50·3 R 17 5·0 32 35·59 32 47·2 R 25 5·0 32 35·62 32 49·4 R   758 54 Sagittarii e¹  Aug. 29 5·0 33 43·94 106 34 13·5 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 15·3 R 20 5·5 33 43·94 34 14·6 R 21 5·5 33 43·91 34 14·6 R 21 5·5 33 43·91 34 14·6 R  Sep. 2 35 34·10 72 48 17·6 R Sep. 2 35 34·10 72 48 17·6 R Sep. 2 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 35 34·10 48 18·3 R 30 5·0 40 5·1 70 16 25·3 R		1	1				-	2.6	R.	763			19	cygni	•				
757 61 Draconis σ  Sep. 3 5·0 19 32 35·60 20 32 50·3 R			23	16.82	<u> </u>		9	1:3	R	Aug. 21	5.0	19	39	52.56		52	56	19.6	R
Sep. 3       5·0       19 32 35·60        20 32 50·3       R       Sep. 3       5·0       39 52·64        56 21·2       R         17       5·0       32 35·59        32 49·4       R         25       5·0       32 35·62        32 49·4       R         758       54 Sagittarii e¹       764       50 Aquilæ γ         Aug. 29       5·0       19 33 43·94        106 34 13·5       R         30       5·0       33 43·94        106 34 12·9       R         Sep. 18       5·5       33 44·01        34 12·9       R         20       5·5       33 43·94        34 12·9       R         20       5·5       33 43·91        34 14·3       R         21       5·5       33 43·91        34 14·6       R         759       6 Sagittæ β        72 48 17·6       R         21       5·5       33 43·91        72 48 17·6       R         21       5·5       35 34·18        48 17·2       R         765       Radeliffe 4446.         8ep. 18	757		61 <i>I</i>	Draconi	s σ					26		ł		52.55			56	21.5	R
17   5·0   32 35·59     32 47·2   R   25   5·0   32 35·62     32 49·4   R   764   5O Aquilæ γ   7758   54 Sagittarii e¹	Sep. 3	5.0	19 3	2 35.60	l i	20	32	50.8	,		5.0		39	52.64			56	_	
Total   Tot	17	5.0	3:	2 35 59				ı		20	5.0		39	52.66			56	21.4	B
758 54 Sagittarii e¹  Aug. 29 5 0 19 33 43 94 106 34 13 5	25	5.0	35	85.62			32												∥
Aug. 29       5·0       19       33       43·94        106       34       13·5       E       29        40       27·55        40       55·5       R         30       5·0       33       43·89        34       12·9       E       30        40       27·58        40       55·0       R         Sep. 18       5·5       33       44·01        34       15·3       E       Sep. 2        40       27·49        40       56·4       R         20       5·5       33       43·94        34       14·3       E       12        40       27·57        40       56·6       R         21       5·5       33       43·91        34       14·6       E       17        40       27·54        40       56·7       R         759       6       Sagittæ β        72       48       17·6       E       26        40       27·59        40       56·7       R         Aug. 28 <td< th=""><th>758</th><th></th><th>54 Sc</th><th>ıgittari</th><th>i e¹</th><th><del></del></th><th></th><th>!</th><th> </th><th></th><th>1 .</th><th></th><th>0 4</th><th>_</th><th>9 <b>y</b></th><th></th><th></th><th></th><th></th></td<>	758		54 Sc	ıgittari	i e¹	<del></del>		!			1 .		0 4	_	9 <b>y</b>				
30 5·0 33 43·89 34 12·9 R 30 40 27·58 40 55·5 R 40 55·0 R Sep. 18 5·5 33 44·01 34 15·3 R Sep. 2 40 27·59 40 56·4 R 20 5·5 33 43·94 34 14·6 R 117 40 27·57 40 56·6 R 21 5·5 33 43·91 34 14·6 R 117 40 27·58 40 56·6 R 21 40 27·59 40 56·6 R 21 40 27·59 40 56·6 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 48 17·2 R 26 40 27·59 40 56·7 R 21 48 18·6 R 30 5·0 40 51·70 32 16 25·7 R 30 35 34·10 48 18·6 R 30 5·0 40 51·70 32 16 25·7 R 16 25·3 R	Aug. 29	5.0	19 29	12.04	1	100					1					79	40	55.6	R
Sep. 18       5·5       33 44·01        34 12·9       R       Sep. 2        40 27·49        40 56·0       R         20       5·5       33 43·94        34 14·3       R       12        40 27·49        40 56·4       R         21       5·5       33 43·94        34 14·6       R       12        40 27·57        40 56·6       R         21       5·5       33 43·91        34 14·6       R       17        40 27·54        40 56·7       R         21        40 27·59        40 56·0       R         21        40 27·59        40 56·0       R         26        40 27·59        40 56·0       R         26        40 27·59        40 56·0       R         Sep. 2        35 34·13        48 17·2       R         19        35 34·31        48 18·6       R       30 5·0       40 51·59        32 16 25·7       R         30 </th <th></th> <th>1 1</th> <th></th> <th></th> <th>- 1</th> <th>106</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>55.5</th> <th>R</th>		1 1			- 1	106												55.5	R
20 5·5 33 43·94 34 14·3 R 12 40 27·57 40 56·4 R 21 5·5 33 43·91 34 14·6 R 21 40 27·54 40 56·7 R 21 40 27·58 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 26 40 27·59 40 27·59 40	Sep. 18							- 1						í	- 1				R
21 5·5 33 43·91 34 14·6 R 17 40 27·54 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 21 40 27·59 40 56·7 R 26 40 27·59 40 27·59 40 27·59 40 27·59 40 27·59 40 27·59 40 27·59 .	20	5.5	-					- 1		-								- 1	- 11
759 6 Sagittæ β . 21 40 27.58 40 56.0 R 26 40 27.59 40 56.7 R 27 28 19 35 34.10 72 48 17.6 R 28 35 34.81 48 18.3 R 28 35 34.12 48 18.6 R 30 35 34.12 48 18.6 R 30 35 34.10 48 18.6 R 30 35 34.10 48 18.6 R 30 35 34.10 48 18.6 R 30 35 34.10 48 18.6 R 30 35 34.10 48 18.6 R 30 36 34.10 48 17.0 R 30 36 34.10 48 17.0 R	21	5-5		40.0-	1		_		- 4										
759 6 Sagittæ β  Aug. 28  19 35 34·10  72 48 17·6 R  Sep. 2  35 34·31  48 17·2 R  28  35 34·12  48 18·6 R  30  35 34·05  48 17·0 R  Cotton C	'														- 1				11
Aug. 28 19 35 34·10 72 48 17·6 R Sep. 2 35 34·13 48 17·2 R 19 35 34·31 48 18·3 R 28 35 34·12 48 18·6 R 30 35 34·05 48 17·0 R  Oct. 19 40 51·59 32 16 25·7 R 30 35 34·05 48 17·0 R	759		6 S	agittæ þ	3.					26					- 1				- 11
Sep. 2      35 34·18      48 17·2 R     765     Radcliffe 4446.       19     35 34·81     48 18·3 R     Sep. 18 Sep.	Απα 00		10 0-	ا معام	,														
19 35 34·81 48 18·3 R Sep. 18 5·0 19 40 51·59 32 16 25·7 R 30 35 34·05 48 17·0 R 0 0 0 0 16 25·3 R		1				72			R	765		Rad	leli	ffo AA	1E				
28 35 34·12 48 18·6 R 30 5·0 19 40 51·59 32 16 25·7 R 30 35 34·05 48 17·0 R 0		i i			ŀ				- 1						æU,				- 1
30 35 34 05 48 17:0 P 0.4 2 51.70 16 25.3 R		- 1			- 1				- 1	-						32	16	25.7	R
		f			- 1				- 1		5.0						16	25.3	R
					1		380	1701	R	Oct. 2		4	0	51.63	6				

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Ascer	78.	No. of Wires.	Di	an P stan 1878	ce.	Observer.	Numi and Date	ì	Magnitude.	A	scen 187	Right sion 8.	No. of Wires.	Di	n Postan 1878.	ce	Observer.
766		17	Cygni						778	5		58	Sag	ittari	iω				
Sep. 19 27	5·0 5·0	19 41 41	47·94 47·85		56	33 33	17·4 17·2	R	Sep. Oct.		5·5 5·3	19	48 48	21·79 21·78	1	116	37 37	16·9 16·8	R C.R
767		8 <i>S</i>	agittæ	ζ					776	6		ŀ	ıı I	avon	is.				
Aug. 28 31 Sep. 28 Oct. 5	5·0 5·0	19 43 43 43 43	33·47 33·64 33·68 33·66		71	9 9 9	45·1 43·5 45·9 47·3	R R R C.R	Aug.	23		19	48 48	29·54 29·62	 	157	16 16	4·1 3·7	R R
1		1			<u></u>		7,0		77		ı			quilæ	1	ا م		48.4	
768 Sep. 4 24 Oct. 3	5·5 5·5	19 44 44 44	4.01	e.   	101	4	13·2 15·8 16·4	R R C.R	Aug. Sep.	31		19	49 49 49 49 49	19·25 19·12 19·25 19·18 19·20		83	53 53 53 53 53	45·4 45·2 44·8 45·0 45·6	R R R R
769	5	3 Aqu	ilæ a,	Alte	air.					27			49 49	19·17 19·19			53 53	46·2 45·2	R
Sep. 23 Oct. 11		19 44 44			81	27 27	5·6 8·8	•	77	8		1		Cygn					
770		Laca	ille 82	224.					Oct.	1	<u> </u>	-		30.02	<u> </u>	51	50	13.1	C.R
Aug. 24	5.2	19 46	3.41		159	28	50.9	R	77			$\theta$	1 S	agitta	rii.				,
<b>771</b> Sep. 10	5.0	,	liffe 4 25:77	1		42	<b>3</b> 1·9	R	Aug. Sep.	22 24		19	51 51 51 51	47.64 47.79 47.75 47.67		125	36 36 36 36	15.0 16.6 16.7 13.8	R R R
772		ı Sa	ıgittar	·ii.					isep.	28			51				36	16.9	R
Aug. 14	4.2	19 46	50.25		132	11	11.6	R	78	0		. 2	Cay	lor 91	72.				
15 16	4·5 4·5	46 46				11 11	11·3	R R	Oct.	5	5.3	19	51	56.08		125	1	30.2	C.R
773	1	B. F.	2695	<u> </u>	d.			<u></u>	78	1		R	adc	liffe 4	517				
Sep. 20 21	5·5 5·5	19 46	55·73 55·69		93		43·0 42·7		Sep.	<b>3</b> 30	5·0 5·0	<u> </u>	52	59·87		49	57 57	32·1	
774	·	59 .	Aquila	e £		·			78			,		ulpeci		,			,
Aug. 28	5·0 5·0	19 48 48	20·02 20·01		81	51 51	9·7 9·1	R	Aug. Sep.	19 20		19	53 53			67	13 13	45·1 45·1 46·0	R R
L 2	5.0	48	19.98	<u> </u>		51	10.2	R	Oct.	3			53	56.47	<u> </u>	<u> </u>	13	45.7	C.R

Separate Results of Madras Meridian Circle Observations in 1878.

	<del></del>	<del></del>						-											
Number and Date.	Magnitude.	As	an Right scension 1878. ms.	No. of Wires.			Polar nce 8.	Observer.	Num an Dat	d	Magnitude.	h.	Asc	Right ension 378.	No. of Wires.		Dist	Polaz ance 78.	bserver.
783		15	Vulpec	ulæ.					79			<u> </u>		Draco					
Aug. 28	5.0	19	56 4 54		62	34	55.9	R	1 '3	•		. '	, 00	Draco	nıs.				
29	5.0		56 4·57			34		1	Aug.	29	5.0	20	3	36.13	ı	28	3 21	28	1   R
Sep. 2	5.0		56 <b>4</b> ·53	i		34				30	5.0		3	36.14	,		21	28	5 R
18	5.0	1	56 4.66	·		34	54.8	R	Sep.	3	5.0		3	36:34	1		21	. 30%	8 R
27	2.0		56 4·52			34	55.4	R		12 18	5·0		3	36.17	1		21		
784		Ta	ylor 92	15.					-		50	<u> </u>	3	36.38		<u></u>	21	28:	3   R
Sep. 12	5.0	19	56 34 37	1	65	96	70.0	1_	791	L		2	28 (	Cygni	b².				
24	5.0	1	56 34·26		05	$\frac{32}{32}$	13·3	R	1	91	۱ ـ ۵	,			,	1			
26		1	6 34.37			32	13.2	1	Aug. Sep.	о1 2	5·0 5·0	20	4	53.88		53	_	-	1
		1	*	1						10	5.0		4 4	53·90 53·76			31	-	1
785		δ	Pavoni	s.					1	16			4	53.64	•••		31	4.7	
A 10	J								j .	21	5.0	1	4	53.75			31 31	5·9	
Aug. 16 19		19 5			156	29	27.8	R	ļ			J		00 70	]		-01		R
19	4.0	5	6 43.96	•••		29	28.3	R					_						
786		63	Aquila	? <b>T</b>					792			. 6	7 4	lquila	βρ				
Sep. 3	5.5	19 5	8 10.97	ا ا	83	3	51.2	ı _	Aug.		5.0	20	8	37.88	[	75	10	20.7	R
4	5.2	5			00	3	51.0	R R	_	12	5.0		8	37.61			10	21.6	R
21	5.5	5	•			3	50.4	R		17	5.0	1	8	37.98			10	21.8	R
Oct. 12		5				3	53.1	C.B.		20 24	5.0		8	37.87			10	21.4	R
18	5.0	5	8 10.79			3	52.9	C.B		24	5.0		8	37:73	•••		10	23.2	R
787		64	Draconi	s e.					793			Ra	deli	ffe 46	<b>354</b> .				
Aug. 21	5.0	20	0 10.83		25	31	10.2	R	0-1	۱ م		1							.
22	5.0		0 10.94	•••		31	12.2	R	Oct.	3	6.0	20	9	7.94	•••	38	54	10-4	C.R.
24	5.0		0 10.94			31	12.7	R		5 L7	6·2 5·6		9	7.93			54	12.1	1 11
Sep. 17 19	2.0		0 10.72			31	12.8	R		-/	9.0	<u> </u>	9	8.05	6		54	10.0	C.R.
19	5.0		0 10.86	•••		31	12.3	R,											
788		0. A	. S. 202	69.					794			30	$C_{i}$	ygni d	1				l
Ang. 14	9.1	20	1 55.71				,		Aug. 2	8	5.5	20	9	28.02	1	43	38	9.0	R
15	9.0		L 55.78		105		00 0	R	2		5.2			28.08			33	7.6	R
			00 70			40	55.6	R —	Sep. 2		5.2			27.88			3 <b>3</b>	9.6	R
789		67 1	Draconi	s ρ				ł	Oct. 1	9	5.0		9	27.80			38	8.0	C.R
Aug. 28			16.00∫	[	22	28	26.0	B.	705			91							
Sep. 28	•••		15.69				26.2	R	795			51	U	ygni o	121				
30			15.76				25.7	R	Oct.	1	4.2	20	9	47.22	}	49	27	38.9	_
Oct. 1			15.84					C.R.	1	- 1	4.2			47.28				39·6	
4		2	15.82	5	!	28	25.1	C.R.	28	8	4.3			47.22			37	40.2	C.B
								<u>_</u>		<u> </u>			==				٠,		J.16

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Asce	Right ension 78.	No. of Wires.		an P Istai 1878	nce	Observer.	Numb and Date.		Magnitude.				No. of Wires.		an P istai 1878	ace	Observer.
796		В.	H. 154	l8.					802			11	Ca	pricor	ni ρ				
Aug. 21 22 24 31 Sep. 3	5·0 5·0 5·0 5·0	20 10 10 10 10	5·80 5·70 5·85		64	46 46 46 46 46	44.8 45.7 46.7 45.1 46.8	R R R R	Sep. 3 12 12 2 2	8 4		20	21 21 21 21 21	53·87 53·95 53·94 53·92 53·96		108	12 12 12 12 12	53·6 55·9 54·8 55·5 55·3	R R R
797 Sep. 18 Oct. 4	4.5	30 10		i.	33	48 48	16·5 16·2	R C.R	2; 2; 3; Oct.	7 8			21 21 21 21 21 21	53·94 53·96 53·99 58·96 54·00			12 12 12 12 12	53·9 54·9 53·8 56·6 57·4	R R R C.R
798 Sep. 10	4·5 4·5	23		ulæ.	62	33 33	28·7 29·8	R		4 5 8 2			21 21 21 21 21	53·98 54·09 54·09 54·16 54·11			12 12 12 12 12	56·0 57·3 54·1 56·2 57·1	C.R C.R C.R C.R
799	1	1	oricorn	i a²	,				803			. (	69 .		е.			1.0	
Sep. 2 4 16 19 21 25 26 30 Oct. 11		20   11   12   13   14   15   15   15   15   15   15   15	17.02 17.20 17.01 17.07 17.07 16.99 16.99		102	55 55 55 55 55 55 55 55	15·3 15·1 17·9 17·1 16·1 16·5 16·7 15·0 17·5	R R R R R R	_	7	5·0 5·0 5·5 4·5	20	23 23 23 23 23 28	16·61 16·62 16·68 16·44 16·48		93	17 17 17 17 17	22·4 22·8 22·7 25·7 26·2	R R C.R
<b>800</b> Sep. 10	<b>5.0</b>	Rado	eliffe 4 3 25:59	751.	49	21	45.4	R	Sep. 19 19 21 Oct. 19	9 1		20	24 24 24 24	24·59 24·80 24·70 24·58		60	2 2 2	15·3 14·8 14·8	R R R
17 18 Oct. 3 18	5·0 5·3 	18 18 18 18	3 25:40			21 21 21 21	47.0 46.7 48.3 49.4	R R C.R C.R	805 Oct. 21	!	5.2	φ 20		Pavoni	1	150	2	15.9	c.r
801		39	) Cygn	i.					23	- 1	5.0		25	27·98 27·90		190	59 59	27·3 26·6	
Aug. 22 26 Sep. 12 19 20	5·0 5·0 5·0 5·0	18 18	59·22 59·15 59·19 59·38 59·30	   	58	12 12 12 12 12	8·9 8·7 9·3 9·4 9·1	R R R R	806 Sep. 10 23 Oct. 18		5·6  5·6	20	26 26	ygni o 17·02   16·78   16·79	ω <sup>9</sup>  6		27	25·6 27·6 28·4	R R C.R

Separate Results of Madras Meridian Oircle Observations in 1878.

Sep. 20       4·0       20       27         24       4·0       27         26        27         808       2       C         Oct. 3       4·0       20       27         809       46       C         Sep. 4        20       27         28        20       27         Sep. 3        27       4         R. P. L.         Mar. 16        20       27       4         Sep. 18       5·0       20       29       3       29       3         Oct. 15        29       3       29       3         Sep. 2       5·5       20       29       5         Oct. 5        29       5         Sep. 12       5·5       20       30       22         21       5·5       30       29	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R R	815 Sep. 16 19 Oct. 4 Nov. 6  816 Sep. 10 27 Oct. 19  817 Sep. 17 28 20 20 20 20 21 21 22 27 28 28 28 28 28 28 28 28 28 28 28 28 28	         	20 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 49·82 1 49·56 1 49·75 Aquilæ. 2 2·23 2 2·03 3 2·28 Celphini &	7	75 43 44 45 45 1 31 31	9 42·4 9 40·3 9 41·0 47·2 46·9
24   4·0   27   26     27   26     27   27   28     20   27   28     20   27   28     20   27   28     20   27   28     20   27   28     20   27   28     20   27   28     20   27   28     20   27   28   25   5·0   20   29   3   3   29   3   3   3   29   3   3   3   3   3   3   3   3   3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	R R R R R	19 Oct. 4 Nov. 6  816 Sep. 10 27 Oct. 19  817 Sep. 17 23 Oct. 8		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 49·82 1 49·56 1 49·75 Aquilæ. 2 2·23 2 2·03 3 2·28 Celphini &	9	44 45 45 1 31 31	9 42·4 9 40·3 9 41·0 47·2 46·9
Oct. 3 4·0 20 27  809	31·71     27 24 55·9   ygni \omega^3 32·99     41 11 25·6   32·94     11 26·5   L. 143.	R R	816 Sep. 10 27 Oct. 19  817 Sep. 17 23 Oct. 8		71   20 32 32 32 8 D   20 32	Aquilæ.  2 2·23   2 2·03   2 2·28    2 2·103   2 2·28    2 2·104	9	1 31	47.2
809 46 C  Sep. 4   20 27   28   27 27    810	$ygni \ \omega^3$ $32\cdot99 \ \dots \ 11 \ 25\cdot6 \ 11 \ 26\cdot5 \ L. \ 143.$ $22\cdot44 \ 3 \ 5 \ 15 \ 41\cdot2 \ 14$	R R	27 Oct. 19 <b>817</b> Sep. 17 23 Oct. 8		20 32 32 8 D	2 2·23   2·03   2·28	9	31	46.9
810 R. P.  Aug. 26   20 27 4  Sep. 3   27 4  R. P. L.  Mar. 16     20 27 4  811 4 Delp  Sep. 18   5.0   20 29 3 25   5.0 29 3 Oct. 15   29 3  812 \$	$egin{array}{c ccccccccccccccccccccccccccccccccccc$	R R	Sep. 17 23 Oct. 8		20 32	58.46			
Aug. 26     20 27 4  Sep. 3     27 4  R. P. L.  Mar. 16     20 27 4  811	12.44 3 5 15 41.2		23 Oct. 8			]	1		
Mar. 16      20     27     4       811     4 Delp       Sep. 18     5·0     20     29     3       25     5·0     29     3       29     3     29     3       812     φ² Pa       Sep. 2     5·5     20     29     5       Oct. 5      29     5       813     70 Aq       Sep. 12     5·5     20     30     22       21     5·5     30     22			21		32 32	58.42		7 6 6 6	42:0 R 40:7 B 43:7 C.1 42:8 C.1
811     4 Delp       Sep. 18     5·0     20     29     3       25     5·0     29     3       9     3     29     3       812     φ² Pa       Sep. 2     5·5     20     29     5       Oct. 5      29     5       813     70 Aq       Sep. 12     5·5     20     30     22       21     5·5     30     22	143—s.p.		818		1.	Aquarii.	- !		The same
Sep. 18     5·0     20     29     3       25     5·0     29     3       Set. 15      29     3       Sep. 2     5·5     20     29     5       Oct. 5      29     5       Sep. 12     5·5     20     30     22       21     5·5     20     30     22       30     22     30     22	13.65 3 5 15 41.4	м	Oct. 2 23	 5·5	20 33 33	9·71 3	3   89	56 56	28:9   c.i
25   5·0   29 3 3 29 3 812	phini ζ		819		9 De	elphini a			
Sep. 2   5·5   20 29 56 Oct. 5     29 56  813   70 Aq  Sep. 12   5·5   20 30 22 21   5·5   30 22	16:33      75     44     43:1       16:23      44     44:1       16:26      44     44:7	R C.R	Sep. 20   24   26		20 33 33 33	58·40 58·20 58·31 3	1	31 31 31	1.3 R
Oct. 5 29 5.  813 70 Aq  Sep. 12 5.5 20 30 22 21 5.5 30 22	vonis.		820	5(	0 Cuan	ni a, Den			2.0 R
Sep. 12 5.5 20 30 25 21 5.5 30 25	5.84		Sep. 30 Oct. 11		20 37 37	16.48	45	9	15.9 R
21 5.5 30 29	- 1 (		12 15 Nov. 5			16·20 16·28			17.0   C.R 16.3   C.R 17.7   C.R
	2.24 4 58 15.4	R R	821			16·39   Elphini δ			17.7 м
814 v Par	· ·		Sep. 4	4·0 2	20 37	45.88	75	21	
Oct. 1 6.7 20 30 44 24 5.5 30 44	onis.	.R	Oct. 1	4·0 5·0 5·0	37 37	45·98 45·77 45·85		21	41·4 R 42·9 R 41·7 C.R

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.		ean l scen 187 m.		No. of Wires.	Œ	an P istan 1878	ıce	Observer.	Numb and Date		Magnitude.		ean I scen 1870 m.		No. of Wires.	Di	n Postan 1878	ce	Observer.
822		16	Сар	ricori	ni ψ					829			i	3 C	ephei	m				
Sep. 18	4.5	20	<b>3</b> 8	52.35	] [	115	42	28.6	R	048	,			00	c proce	"				
25	1		<b>3</b> 8	52.02			42	28.4	R	Oct.	21	4.7	20	42	48.19		28	38	2.6	C.R
27	4.5		38	52.16			42	27.7	R		23	4.0		42	48.18		1	38	2.0	C.R
Oct. 8			38	52.21		1	42	28.8	C.R											
17	4.7		38	52.17		<u> </u>	42	28.8	C.R	830	)		18	Cap	ricor	ni a	•			
823	ı	Mi	cros	copii-	—ls	$oldsymbol{t}.$				Aug.		Ì	20	44	32.19	ı	117	22	26.2	R
	1	١٠٠	40	70.04	(	1.04	۵۲			_	12		40	44	32.07		111	22	26.4	R
Aug. 23		20	40 40	12.64 12.49	···	134	25	51·4 52·9	R	_	19	···		44	32.23			22	26.5	R
30 Sep. 2	1		40	12.52			25 25	54.2	R		25			44	32.12			22	25.5	R
Sep. 2			40	12.68			25	53.7	R R		27			44	32.32			22	25.4	R
19			40	12.78			25	52.0	R				<u></u>			<u></u>	<u>,                                     </u>			<u></u>
		<u> </u>			-	<u></u>				831	ı			В	Indi.					
824			53 (	Cygni	€							4.0	100		15.60	1	148	54	45.2	R
Aug. 29	3.0	20	41	16.22		56	29	7.3	R	Aug.	20	4.0	20	45	10 00		190		40 4	_ K
Sep. 3	1		41	16.61		l	29	7.4	R						~					
20	. }		41	16.21			29	7.5	R	832	2			57	Cygn	<i>l</i> .				
23	• • • • • • • • • • • • • • • • • • • •		41	16.61	•••	<u> </u>	29	6.7	R		00	۱ ۲.۵	امما	40	re.00	1	1 40		04.5	١ ـ
825		λ¹	Cyg	ni, V	ar 5					Aug.	23 26	5·0 5·0	20	48 48	55·99 55·71		46	4. 4.	24·5 23·4	R
	1 6.0	100	40	30.70	I	1		01.0		Sop.	4	5.0		48	55.96			4	24.9	R
Aug. 19		20	42 42	18.78 18.57	•••	56	4 4	21·8 23·4	R		10	5.0		48	55.74			4	24.2	R
26	- 1		42	18.65			4	23.9	R		17	2.0		48	55.84			4	26.7	R
	,   9 -	ח			!	1			1	833			3	9 V	ulpeci	מוניי				
826	,	1		iffe 4						83.	•		, 0	- ,	wopooi	,				
Sep. 10	1	20	42	19.32	1	32	51	25.1	R	Sep.	16		20	49	21.53		62	24	19.1	R
28			42	19.17	1		51	27.6	R		18		i	49	21.61			24	19.5	R
Oct. 19			42 42	19·34 19·10	1		51	29.2	C.R		19			49	21.58			24	17.4	R
25			42	19.26	6		51 51	28·3 28·0	C.R		20			49	21.60			24	18.9	R
	, 130	1		10 20	) 0	1		20 0	0.10		21 23			49	21.55			24 24	18·7 17·9	R
			51.	~~~;	: `					Oat	23			49 49	21·55 21·52			24	17.7	R C.R
827			り生	Cygni	, ,,					Oct.	5			49	21.22		1			
Sep. 16	5 5.0	20	42	39:29	·	53	57	23.0	R		8			49	21.44			24	20.0	
Oct.	ı		42				57		C.R		15			49	21.20				19.4	
	1		42				57	25.0	C.R				-			-	1			1
Nov.	5.0		42	39.18		]	57	23.2	М	834	4 ·		7	76 <i>L</i>	racon	is.				
			ι	Indi.									1		70.0 <b>m</b>	1 -	1 -			1
828											7 100	1								
0ct. 18	8   K·V	00		40.37		140	9	20.4		Oct.	17 19		20		19·27 19·14	1	7		21·3 19·1	1

Separate Results of Madras Meridian Circle Observations in 1878.

:	Numb and Date	l	Magnitude.			Right sion 8.	No. of Wires.	Dia	n Pol tance 878.		Observer.	Numl and Dat	1	Magnitude.	As	nn R Icens 1878 m.	ion	No. of Wires.	Di	n Postano 1878.	olar ee	Observer.
	835	5			<b>5</b> 8	Oygni	ν					842	2	2	Pis	cis	Austi	ralis	3.		:	
	Sep.	12	4.0	20	52	37·16		49	18	4.8	R	Aug.	21	5.2	20	58	57:01	{	122	49	38.9	R
		25	4.0	Ì	52	37.23			18	4.2	R	Sep.	- 1	5.2	_		57.25		120	49	39.6	R
		80	4.0		52	37 46			18	4.5	R		19	5.5			57.17			49	39.4	R
	Oct.	2			52	37.41	6		18	4.9	C.R		23			58	56.93			49	37.9	R
-		23	4.4		52	37:39			18	4.6	C.R		27	5.2		58	56.90			49	39.9	R
	83	6			χ	Cephe	i.				,	84	•		24 (	Can	ricorn	i A				
	Aug.	29		20	53	1.26		33	34	<b>52</b> ·5	R	Ų.	•			Jwp.						. 1
	_	31			53		}		34	53.0	R	Sep.			20	59	59.27		115	29	30.1	R
	Sep.	2			53		1			54.6	R		24			59	59.25			29	31.4	R
		27			53		.	1	34	53.9	R	Oct.				59	59.37			29	30.4	C.R
-		28	1		53	1.03	• ]	)	34	55.4	R		19			59	59.49	•••		29	82.0	C.R
	83	7		R	ade	liffe 5	6066				•	84	4		(	62 (	Cygni	ξ				
$\ $	Oct.		5.0					1	54	22.8		Aug	29	1 4.0	21	0	29.60	1	46	33	26.7	R
I		21	6.0		58	3 3.6	L   5	1.	54	21.8	C.B	Sep.		4.0		0	29.42		30	33	27.6	R
	83	8		1 /	isc	is Aus	stral	is.				Oct.	4			0	29.49			33	27.9	c.R
	Aug	. 30	5.5	2	0 5	3 48.39	9	122	43	58.2	R	١.,	_		Oκ	Car		<b></b> .				
	Sep	. 24	5.5	5	5	3 48.19	2		43	59.1	R	84	:5		20	Сар	ricor	$m \chi$	C			
	Oct	. 24	4.8	3	5	3 48.2	2		43	58.4	C.E	Aug	. 30	5.5	21	1	34.23	1	111	40	56.1	R
	Nov	·. 6	5.4	5	5	3 48.3	6		43	57	М	Oct.	. 2	5.2		1	34.22			40	58.2	C.R
				ດ	0 (	aprico	10 to 1	_				}	21	5.8		1	34.19		1	40	57.2	C.R
	-	39	. 1	1		_	,	1			<b>.</b> (		29			1	34.10	5	1	40	58.5	C.R
	Sep	. IO	)	- 1		7 27.5	- 1	1			.											
	Oct					67 27·6 67 27·6	ı	- (	20 20	9· 10·	1	84	ŀ6			o F	avon	is.				
		1	1	- 1		7 27 5	1	l l	20		-	1	. 18	6.0	21	1	52.50	١	:160	37	23.7	c. R
				'-	7.0							<u> </u>			1			1	1			1
1	8	40			12	2 Aque	ırıı.				,	84	17			63 <i>(</i>	Cygni	f2				
Ì	Ser	. 1	1	- 1		57 37.4		. 9		-	1					'						
		2	1	1		57 37 4	1	•	18					5.0	21	2			42		26.5	
١	Oct		5 6.	- (		57 <b>37</b> .4		.	18				. 23	5.0		2	23.94	<u> </u>		50	28:9	C.R
	No	2 v.	- 1	1		57 37:5 57 37:5				3 17 <sup>-</sup> 3 16 <sup>-</sup>												
			1			<del></del>	'	<u> </u>			-1 "		<del>4</del> 8		Į.	5 <i>E</i>	quule	$i \gamma$				
	8	41			ηΙ	<i>Micros</i>	copii					Ser	p. <b>2</b>	5.0	21	4	24.57	, l	80	21	30.0	R
	Ser	٠.	2   5	5	20 8	58 <b>28</b> .	78	. 13	1 52	2 17	7 1		10	5.0	1	4		1	ı		29.5	
		2		5		58 <b>28</b> .9	,			15	6 B		17	5.0	1	4					31.1	
١	Oct	·.		0		58 28				2 15		R Oc	t. 5			4			.		38.8	
١		2	6	-	!	58 28	B9   £	5	59	2 16	·0 c.	B	15	5.3	;	4	24.4	3		21	32.2	C.R

1		1	1					==											•		
Num an Dat	d	Magnitude.	Me A	ean I scen 187 m.	Right sion 8.	No. of Wires.	D	istan 1878	ce	Observer.	Num and Dat	Ē	Magnitude.	h.	ean 1 Iscen 187 m.		No. of Wires.	D	an P istan 1878	ice	Observer.
84	9		(	34 <i>(</i>	Cygni	ζ					85.	5	4	4 Pi	scis	Aust	rali	s.			
Sep.	16	<b></b>	21	7	44.50	١	60	16	21.1	R	Sep.	2	1	21	10	32.27	١	122	40	48.7	R
	20			7	44.61			16	20.2	R		28			10	32.02			40	53.2	B
	23			7	44.61	j	ĺ	16	20.7	R	Oct.	2			10	32.21			40	53.9	c.r.
	27	٠		7	44.58			16	19.8	R	Nov.	-			10	32.28			40	51.0	м
Oct.	8			7	44.62			16	22.6	C.R		9			10	32.21			40	50.7	M
	12		ļ	7	44.52			16	22.2	C.R											
Nov.				7	44.57		ĺ	16	20.3	M	85	6			67 (	Cygni	σ				
	12		<u> </u>	7	44.75		<u> </u>	16	21.9	м	Oct.	4	ſ	21	10	07.05	1		_		
											000.	15		21	12 12	37·25 37·28		51	6	57.6	C.R
85	0		1	7 E	quulei	δ					Nov.			Ì	12	37·56			6 6	58·4 57·3	C.R
g	7.0	1	1 01		00.40	۱ ـ	1 00			ı			J	<u> </u>		07 50	<u> </u>			0/ 8	м
Sep.		4.5	21	8	32.42	5	80	29	7.4	R		_			00	٠.					
11	18 30	4.5		8 8	32·48 32·28			29 29	10·7 10·3	R	85	7			66	Cygni	υ				
Oct.		5.2		8	32.24			29	10.1	R C.R	Sep.	19	4.5	21	12	54.21	١	55	36	52.5	R
''	26			8	32.27			29	11.3	C.R	1	27	4.5		12	54.10	l	"	36	51.0	R
		<u> </u>	<u> </u>			1	<u> </u>		-		Oct.	5	5.2		12	54.02		į	36	53.8	C.R
												18	5.0		12	53.93			36	54.6	C.R
85	1		Ra	dcl	iffe 51	l5 <b>1</b> .		•				22	5.2		12	53.96	6		36	52.2	C.R
Sep.	17	5.0	21	8	41.77	١	30	30	52.6	R											
	21	5.0		8	41.46			30	52.5	R	85	8			6 C	ephei.					
Oct.	23	7.2		8	41.54	5		30	51.4	C.R	_		1	1			ı				1
	25	6.0		8	41.69			30	53.0	C.R	Sep.		5.0	21	16	50.14	•••	25	38	41.1	R
Nov.	8	5.7		8	41.81			30	54·1	м		18 20	5.0		16 16	50·08	•••		<b>3</b> 8	42.4	R
-							·				Oct.		5.2		16	49.90		ŀ	38 38	41·8 42·1	R C.R
	_				1						000.	25	5.2			50.13		ŧ	38	42.3	C.R
85	2			Α.	lnon.						<b> </b>			<u></u>			)	<u> </u>			10.22
Oct.	3	10.5	21	9	4.50	4	110	46	38.3	C.R	85	9		36	Ca	pricor	ni t	) <b>.</b>			
											Sep.	4	1	21	21	46.11	1	112	20	11.6	R
85	3		8	B E q	yuulei	$\boldsymbol{a}$		4			"	18		1	21	46.03			20	14.3	R
Sep.	4	1 1.5	01	n	43.66	ı	85	15	17:3	۱.		23			21	45.96			20	12.3	B
Bep.	25	4.5	21	9 9		ı	00		18.6		Oct.	3		1	21	46.16			20	15.0	C.R
Oct.		5.2			43.48	1			20.9			15			21	45.98			20	14.7	C.R
			<u> </u>				<u>'</u>			_											
				25						1	86	0			A	lnon.					
85	4			ხ5 (	Cygni	τ					Oct.	17	9.2	21	22	14.08	6	147	29	21.8	C.R
Oct.	1	4.7	21	Ω	55.17	l	52	28	25.8	C.R	000.	18	9.5			14.17			29	20.9	C.R
566.	17	4.8	""		55.10		""	28	27.4		Nov.		9.4			13.72			29	20.7	м
1	21	4.8			55.10				27.2			9	9.5			13.83			29		м
1		<u> </u>	1			1 "	<u> </u>						1	<u></u>							

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.   Sep. 20   5·5   21   24   22·51     131   42   5·5 \cdot 3   R   24   5·5   24   22·26     42   5·5   24   22·26     42   5·5   3   R   25   3   R   26   3   3   3   3   3   25·59     46   38·5   3   3   3   3   3   3   3   3   3	R C.R C.R R R C.R
Sep. 20       5·5       21       24       22·51        131       42       55·3       R       28       4·5       29       23·37        44       56       48·3         Oct. 1       5·5       24       22·26        42       56·2 R       Oct. 18       4·7       29       23·37        44       56       49·4         21       6·0       24       22·21        42       57·4 C.R       22        99       23·37        56       50·0         26        24       22·21       6       42       57·4 C.R       22        99       23·37        56       49·6         362       71       Cygnig        43       59·47·9       R       Sep. 17        21       32       25·59       4       84       46       38·9         Sep. 17       5·0       21       24       56·79        59·46·7       R       4        32       25·59       4       84       46       38·9         Oct. 5       6·0       24       56·78        59·47·3<	R C.R C.R R R C.R
24 5·5 24 22·26 42 56·2 R 28 4·5 29 23·25 56 50·0   Oct. 1 5·5 24 22·26 42 54·4 c.r.   21 6·0 24 22·21 42 57·8 c.r.   26 24 22·21 6 42 57·4 c.r.    Sep. 17 5·0 21 24 56·79 43 59 47·9 R   19 5·0 24 56·79 59 46·7 R   Oct. 1 32 25·59 4 84 46 38·9   Oct. 1 32 25·35 46 39·3   Oct. 1 32 25·35 46 39·3   Oct. 1 32 25·35 46 39·3   Oct. 1 32 25·35 46 39·3   Oct. 25 8·0 21 25 6·47 44 6 28·7 c.r.    Oct. 25 8·0 21 25 6·47 44 6 28·7 c.r.   Oct. 3 5·0 21 34 38·94 5 28 28 3·0   Oct. 3 5·0 34 38·90 28 2·3   Nov. 6 5·0 34 38·90 28 2·3   Oct. 3 34 38·90 28 2·3   Oct. 3 3-3 34 38·90 28 3·9   Oct. 3 3-3 34 38·90 2	R C.R C.R R R C.R
24 5.5 24 22.26 42 56.2 R 28 4.5 29 23.25 56 50.0 Ct. 1 5.5 24 22.26 42 54.4 C.R 21 6.0 24 22.21 42 57.8 C.R 22 9.9 23.37 56 49.6 26 24 22.21 6 42 57.4 C.R 22 9.9 23.37 56 49.6 26 24 22.21 6 42 57.4 C.R 22 9.9 23.37 56 49.6 26 24 25.79 43 59 47.9 R 29 23.48 56 49.6 24 56.79 59 46.7 R 29 23.48 56 49.6 24 56.79 43 59 47.9 R 29 23.37 56 49.6 29 23.25 46 38.9 29.3 29.5 29.3 29.5 29.3 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5	R C.R C.R R R C.R
Oct. 1       5·5       24 22·26        42 54·4       c.r.       Oct. 18       4·7       29 23·43        56 49·4         21       6·0       24 22·21        42 57·8       c.r.       22        29 23·43        56 49·4         26        24 22·21       6       42 57·4       c.r.       22        29 23·43        56 49·4         862        24 22·21       6       42 57·4       c.r.       888       4 Pegasi.         Sep. 17       5·0       21 24 56·79        43 59 47·9       r.       19        32 25·59        46 38·9         Oct. 5       6·0       24 56·78        59 48·6       c.r.       4        32 25·35        46 40·2         Nov. 6       5·2       24 57·01        59 47·3       r.       19        32 25·35        46 40·2         863       Radeliffe 5252.       869       9 Cephei.         Oct. 25       8·0       21 25 6·47        44 6 28·7       c.r.       17 5·3       34 38·94       5 28 28 3·3         8	C.R C.R R C.R C.R
21 6·0 24 22·21 24 22·21 24 22·21 24 25·8 c.r. 26       42 57·8 c.r. 28 22 29 23·37 56 49·6         362 71 Cygni g.       868 4 Pegasi.         Sep. 17 5·0 21 24 56·79 43 59 47·9 r. 19 5·0 24 56·79 59 46·7 r. Oct. 5 6·0 24 56·79 59 48·6 c.r. Nov. 6 5·2 24 57·01 59 47·3 r. 19 32 25·35 46 40·2 r. 19 32 25·35	R R C.R C.R
Sep. 17   Sep. 17   Sep. 17   Sep. 17   Sep. 17   Sep. 17   Sep. 17   Sep. 17   Sep. 18   Sep. 17   Sep. 18   Sep. 19   Sep	R R C.R
862       71 Cygni g.         Sep. 17   5·0   21 24 56·79     43 59 47·9   R       Sep. 17   R       Sep. 17     21 32 25·59   4 84 46 38·9         19   5·0   24 56·79     59 46·7   R       Oct. 1     32 25·42     46 39·3         Nov. 6   5·2   24 56·78     59 48·6   C.R       4     32 25·35     46 40·2         Nov. 6   5·2   24 57·01     59 47·3   R       19     32 25·35     46 40·2         863       Radcliffe 5252.       869       9 Cephei.         Oct. 25   8·0   21 25 6·47     44 6 28·7   C.R       Oct. 3   5·0   21 34 38·94   5   28 28 3·0         17 5·8   34 38·95     28 2·3       23 5·8 34 38·69   5   28 3·3         Nov. 6 5·0   34 38·90     28 3·9       9 5·4   34 38·90     28 3·9	R C.R C.R
Sep. 17       5·0       21 24 56·79        43 59 47·9       R       19        32 25·59       4 84 46 38·9         19       5·0       24 56·79        59 46·7       R       Oct. 1        32 25·59        46 38·5         Oct. 5       6·0       24 56·78        59 48·6       C.R       4        32 25·35        46 40·2         Nov. 6       5·2       24 57·01        59 47·3       R       19        32 25·33        46 40·2         863       Radcliffe 5252.       869       9 Cephei.         Oct. 25   8·0   21 25 6·47         44 6 28·7   C.R       0ct. 3 5·0 21 34 38·94 5 28 28 3·0         17 5·3 3 34 38·69 5 28 3·3       34 38·69 5 28 3·3         Nov. 6 5·0 34 38·90       28 3·9         9 5·4 24 34 38·93       28 3·9	R C.R C.R
Sep. 17       5·0       21 24 56·79        43 59 47·9   R       19	R C.R C.R
19   5·0   24   56·79     59   46·7   R   Oct. 1     32   25·42     46   39·3   Nov. 6   5·2   24   56·78     59   48·6   C.R   19     32   25·35     46   40·2   19     32   25·35     46   40·2   40·8   40·2	C.R
Nov. 6     5 · 2     24 · 57 · 01      59 · 47 · 3     R     19      32 · 25 · 33      46 · 40 · 8       863     Radeliffe 52 52.     8 · 0     21 · 25 · 6 · 47      44 · 6 · 28 · 7     c.r.     Oct. 3 · 5 · 0     21 · 34 · 38 · 94 · 5 · 28 · 28 · 3 · 0       9 · 0 · 1 · 25 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 ·	ì
863     Radeliffe 5252.       Oct. 25   8·0   21 25 6·47     44 6 28·7   C.R       864     22 Aquarii β       869     9 Cephei.       Oct. 3   5·0   21 34 38·94   5   28 28 3·0       17   5·3   34 38·85     28 2·3       23   5·3   34 38·69   5   28 3·3       Nov. 6   5·0   34 38·90     28 3·9       9   5·4   34 38·93     28 3·9	1.
363       Nationally 5 252.         Oct. 25   8·0   21 25 6·47     44 6 28·7   C.B.       Oct. 3   5·0   21 34 38·94   5   28 28 3·0         17 5·3 34 38·85   28 2·3         23 5·3 34 38·69 5   28 3·3         Nov. 6 5·0 34 38·90   28 3·9         9 5·4 34 38·93   28 3·9	C.R
364     22 Aquarii β         17     5·3       34     38·85       3864     22 Aquarii β         17     5·3       34     38·85       38     34       38     38       39     5·4       34     38·90       38     38·90       39     5·4       38     38·90       39     5·4       38     38·90       39     5·4       38     38·90       38     38·90       38     38·90       39     5·4       38     38·90       39     5·4       38     38·90       39     5·4       38     38·90       39     5·4       38     38·90       39     5·4       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     38·90       30     3	
364   22 Aquarii β   Nov. 6   5·0   34   38·95     28   2·3   3·9	c.R
23 5·3 34 38·69 5 28 3·3 Nov. 6 5·0 34 38·90 28 3·9 9 5·4 34 38·90 28 3·9 9 5·4 34 38·90	O.R
864 22 Aquarii β Nov. 6 5·0 34 38·90 28 3·9 9 5·4 34 39·93	C.R
	м
	м
00 U 20 U E	
Out 2 Section 1 1 240 R 870 80 Cyani $\pi^1$	
4 25 8:07 6 24:2 CP S 10	,
29 25 8·01 59.0 Sep. 13 4·5 21 37 45·76 39 21 59·8	R
Nov. 2 25 8.05 6 24.8 C.B. Oct 9 5.5	R
5 25 8·07 6 24·3 M 69 7.9 37 45·66 6 22 0·8	C.R
96 97 47.00	C.R
865 Radcliffe 5280.	C.R
Sep. 23     21 27 38·10     30 4 41·9   R	
27 5.0 27 38.06 4 40.8 B Oot 5 1 103 00 1001	.
Oct. 23   6·2   27 38·10     4 40·7   C.R   29     38 11·64     80 41 1·2	C.R
Nov. 11 5.5 27 38.21 4 41.8 M Nov. 2 38 11.69 4 41 1.4	C.R.
12   5·8   27 38·28     4 41·2   M	C.R
866 8 Piscis Australis. 872 78 Cygni μ—1st.	
Sep. 18   5.5   21 29 6.31     116 42 51.8   P	R.
20 27 27 38 40.97 48 25.7	
Oct. 15 99 6:49 40 740 7 8 50 38 41:20 48 28:2	R
Nov. 14 5-7 29 6:47 49 51-6 10 10 10 10 10 10 10 10 10 10 10 10 10	C.R
25 647   42 51.6 M   11   5.4   38 41.03   48 27.9	

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.		an H scen 1878 m.		No. of Wires.		n Postano 878.	olar co	Observer.	Num an Dat	đ	Magnitude.			i	No. of Wires.	Di	n Postan 1878.	ce	Observer.
873		μ	Суд	ni—2	end.					881	Į.		1	l6 <i>I</i>	Pegasi.					
Oct. 1		21	38	41.34		61	48	28.1	C.R.	Oct.	2		21	47	30.62		64	38	53.1	C.R
19		21	38	41.50	6	0.	48	29.0	C.R		3			47	30.00			38	52.4	C.R
25				41.49			48	27.6	C.R.											
		<u> </u>								882	2		3	30 A	lquari	i.				
874			9 P	egasi.	•					Sep.	21	5.0	21	56	51.49		97	6	37.9	R
Sep. 24	4.5	21	38	43.96		73	12	31.2	R	_	25	5.2		56	51.32			6	39.7	R
30	4-5-		38	44.17	4		12	29.7	R		27	5.2	i	56	51:37			6	38.0	R
Oct. 21	5.0		38	48.94			12	31.9	C.R	Oct.	21	5.7	}	56	51.27			6	40.7	c.r
		<u></u>			<u> </u>				_		2-1		}	56	51.40			6	38.9	C.E
875			10 <i>I</i>	Pegasi	κ															
G 00	ı	ا ما	00	H.10	í !	64	54	54.2	R	88	3			16	Cephe	i.				
Sep. 23 28	4.0	21	39 39	7·10 7·25	···•	04	54	54.6	R	Oct.	1	ı	21	57	29.91	5	17	24	0.0	100
Oct. 24	4.7		39	7.13			54	54.0	C.R	Oct.	8	•••	21	57	29.75		17	24	2.3	C.R
	- /				<u> </u>						22	5.0		57	29.94	···		24	3.5	C.B
OFF			11	Cephe	Ť.					Nov.		5.0		57	30.28			24	3.0	м
876				COpilo							9	5.3		57	30.34			24	1.3	М
Nov. 14	4.6	21	40	7.88		19	14	59.6	M			<u>i</u>	<u>'</u>			!	·	<del></del>		
										88	4				Anon.					
877			10 (	Cephei	ν						24	1	1 ~		wa.aa	1	1	~-		ı
Sep. 21	4.5	21	4.1	55.75		29	26	29.7	R	Sep.	28	10.0	21	57 57	50·26 50·33	4	92	31 31	10·4 7·6	1
Борт 21		1							!	Oct.		9.9	}		50.45				10.2	1
878		۶	81 (	Tygni ·	$\pi^2$							1 00	<u> </u>			1	<u> </u>			10.1
6/8		. `	0	99.00						88	5		3	4 A	lquari	i a				
Oct. 4		21	42	16.98		41	15	16.1	C.R	"	•	,			. 1 20001 0		1			,
										Oct.	3		21	59	30.04		90		42.7	1
879			14	Pegas	i.					l	29	•		59	31.04			54	43.9	C.R
	1 - 0	۱			1	ا م	20	0=.0		Nov.				59	30.02	•••		54	43.4	C.R
Sep. 27	5.0	21		26·71 26·77		60	23 23	35·0 34·3	R		6 21			59 59	30·99 31·05			54 54	41·7 43·1	M
30 Oct. 21	5.0		44 44	26.78			23	36.4	C.R		4L	<u> </u>	<u> </u>		D. 110		<u> </u>		T Out	M
23	5.0			26.70				34.3			c			18	Cephe	i				
	1	1			1	<u></u>			1	88	ซ			10	оврив					
880		υ	Cepl	hei, va	ar 5.					Oct.		5.2	22	0	13.74		27		24.1	
<b>!</b> !	,	,	-			,				Nov.		5.4			13.97	1			24.0	
Sep. 18	5.0	21		51.40	1	20					14	5.2		0	13.75	•••		82	23.7	M
19	5.0			51.32				51.5	1					<u> </u>	_					
Oct. 17	8-2			51.40			24			1 00	7			24	Pegas	2 6				
22	9.0	J		51.44		İ	24					1	1			1	1			ı
Nov. 6	7.8	1	44	51.88		1	24	51.8	M	Oct.	24	4.0	122	1	19.87	1 5	1 65	15	0.5	C.R

Separate Results of Madras Meridian Circle Observations in 1878.

	<u>;</u>	1 3/5-	72:34	S.	1_			<del></del>	<del></del>		_					·		
Number and Date.	Magnitude	As	an Right cension 1878. m. s.	No. of Wires		Dista 187		Observer.	Number and Date.	Magnitude.	h.	Asce 18	Right nsion 378.	No. of Wires.		Dist 18	Polar ance 78.	
888		38	Aqua	rii.	<u> </u>			-	898			1 1	Laceri					
Sep. 25	5.2	22	2 17.15		109	9 6	57.0	R	Nov. 11	1			39.28		1			1
27	5.2	<u> </u>	2 17.16	·			56.1	R	,	1	22	10	39.28	3	5	2 5	1 30.	5 1
889	]	L5 Pis	ecis Au	strai	lis.				899		. 4	6	1quar	rii ρ				
Oct. 19	4.7	22	2 59.87	5	123	8	48.9	C.R	Nov. 26	5.7	22	13	46.78	3	98	3 25	5 59.	0   1
890		27	Pegasi	$\pi^{\scriptscriptstyle 1}$			· · · · · · · · · · · · · · · · · · ·		900			30	Pega	si.				
Oct. 21	5.2	22	3 49.23		57	25	23.9	C.R	Nov. 27	5.4	22	14	19:28	3	*84	49	20:7	7 N
891		29	Pegasi	$\pi^2$					<b>901</b> Nov. 12	1	1		[ucan		ı			
Sep. 24	4.0	22	4 33.93	1	57	25	11.1	_	100. 12	5.0	22	18	38.29		155	35	11.8	3 M
Oct. 22			4 34.08		"	25	11.2	R C.R	902		3	La	certæ	β				
25	4.3		4 84.08	***		25	12.3		Nov. 28	4.5	22	18	45.98		88	22	52.0	M
892	ı	Rad	cliffe 5	591.					903	<i>'</i>	·	4 L	acert	æ.	<u> </u>			
Oct. 23	5.2	22	6 25:30		39	46	43.9	C.R	Nov. 8	<b> </b>			34.30		41	8	30-3	M
893		21	Cephei	ζ			· · · · · ·		11 25			19 19	34·41 34·38			8	29.5	M
Oct. 18	3.7	22	6 37:27		32	23	59.3	C.R	904	<u> </u>	R	. P.	L. 1	<u> </u>	1			M
894		24	Cephe:	i.					Sep. 24	١	22	22	45.24	, .	م ا	••		,
Oct. 17	4.8	,	7 27:47	5 ]	10	15	احدو		Oct. 8			22	45.39	3	4	30 30	24·9 24·4	C.R
24	4.9	2		6	10	15	35·5 35·0	C.R C.R	17	•	ļ	22	45.71	3		30	23.2	1
Nov. 9	5.0	7	7 28.19	l		15	33.2	M	22	•••		22	45.72	3		30	25.1	C.R
								-	Nov. 6	•			44.41	3		30	25.0	м
895		$\mu$	¹ Gruis	S				- 1	9 14	•••			46.48	3		30	22.4	M
Nov. 12	5.1	22 8	3 15·52	1	131	57	12.0	.	15	•••			45.49	3		30	24.9	M
896	<u>'</u>			<u>'</u>	_		120	- I	21				45·83 44·73	3 3		30 30	24·8 23·9	M M
Oct. 1	ı		Aquarii		_		,				R. P	. <i>L</i> .	150-	e n				
4		10 مد	23·71 23·58		98		22.6 23.7		Mar. 28						•			
26			23.69					C.R	28				44.97	3			25.3	M
Nov. 6			00 -0				1	C.R.	Apl. 2	•••			45.34	3			26.8	M
			1				-00	M	6				45.97	3			25.8	M
897		23	Cephei	€					10				45·65 45·64	3			28·0 27·6	R R
Nov. 8	4.6	22 70	32-91	1	90	99	-0.01		22		5		45.34	3			24.0	R
	4.9		32.96					M	27		9		45-80	3			26.6	R
			- JU			<b>0</b> 0	52-1	M	May 8			00	44.90	3			27.0	

44.39

36·57 27·13

	.	<del></del>	==		98.			, 1							S.		==		
Number and Date.	Magnitude			Right ision 8.	No. of Wires.	Di	in Peistan 1878	ce	Observer.	Number and Date.	Magnitude.	Me A h.	an F scen 187 m.		No. of Wires.	Di	in Pristan 1878	ce	Observer.
905			B. 1	7. 309	1.					912		4	6 F	egasi	ξ				
Nov. 26	5.8	22	<b>2</b> 8	53.70		114	37	16.4	M	Nov. 11		22	40	35.85		78	27	7:3	М
28	5.7		28	53.55	•••	<u> </u>	37	15.6	M	913		·	7 F	egasi	``				
906		62	$2 A_{\zeta}$	quarii	η					Nov. 26		22	40	•	,	67	4	32·1	м
Oct. 17		22	29	5.14		90	44	45.3	C.R		!	n-	7 . 7	:.ee. r	045				
18			29	5.13			44	44.6	c.R	914	1 .	,		iffe 5		1			
19			29	5.28			44	44.3	c.r	Nov. 14	5.8	22		44.00		34	44	40.1	М
21	•••		29	5.24		1	44	45.1	C.R	25	2.3		44	44.78			44	36.8	M
22 23			29 29	5·19 5·09			44	45.6 45.4	C.R	915		Ra	deli	ffe 58	364.				
24			29	5.18			14	44.2	C.R		٠	1		6.97 3 <del>7:12</del>	J <b>U.S.</b> I	۱ ۵۵			ı
Nov. 11			29	5.15			14	47:0	M	Nov. 8 27	5·4 4·5	22	46 46			28	57	5.2	M
22		1	29	5.24			44	45.8	M			<u> </u>	-100	37:36		<u> </u>	57	4.6	M
907			31	Cephe	i.	L			!	916	23	Pis	cis	Austr	alis	δ			
307	,	,	-	ocpiio	,					Nov. 12	5.4	22	49	11.46		123	11	30.2	M
Nov. 12	5.1	22	32	45.20		16	59	147	M	21	5.0		49	11.45			11	30.4	м
14	5.3		32	45.26		<u> </u>	59	14.7	М	917 24	4 Pisc	is A	lust	ralis	a, 1	Foma	lha	ut.	
908			30	Cephe	i.					Oct. 19	<b> </b>	22	50	51.28		120	16	8.2	c.F
Nov. 15	5.4	22	34	19:94		27	2	55.0	M	Nov. 22			50	54.16	İ	120	16	6.3	M
21	5.2		3.1	19.89			2	54.6	м		<u> </u>	<u> </u>	4.		<del>'</del>	<u> </u>			<u>!</u>
909			42 .	Pegas:	iζ					918			ζ	Gruis.	,				
Oct. 3	l	22	35	22.61	١	79	48	17.5	١, ,	Nov. 11	5.0	22	53	40.00		143	24	28.7	М
18			35	22.58		15	18	18.1	C.R	15	5.0		53	39.98			24	28.4	M
19			35	22.20			48	18.8	c.r	919		- n	د د د	s Aus	4	•-			
22			35	22.61			48	17.5	C.B						1	1			
23			35	22.56			18	18:3	C.R	Nov. 9	5.7	22	56	41.42		125	24	30.1	M
24			35	22.55			48	18.0	C.R	25	5.4	ļ	56	44.56			24	31.4	M
25			35	22.51			48	18.4	C.R	000	5/	. Da	~~0	; a 1	lan't	a h			
26 Nov. 6			35	22.57	•••		48	18.1	Ċ.R	920			_	ia, M					
Nov. 6 8			35 35	22·39 22·59		ļ.	48	15.0	M	Oct 18	•••	22		41.02		75	27		c.r
	1	Ì		22 00		1	-18	18.0	M	19	•••		58	40.95			27	3.3	C.I
910			43	Pegasi	i o					21 22	""		58 58	40·94 40·91			27 27	3·7 4·7	C.I
Nov. 9	1	1	36	1.88		[ cr	10	43.7	M	24			58	40.97	:::		27	3.1	C.1
27			86	2.04	1	01		43.5		25			58	41.00			27	3.4	C.3
	1				<u> </u>	1				26		1	58	40.97			27	3.9	c.I
911			η	Gruis						Nov. 8			58	41.00			27	3.9	M
Nov. 28	5.0	22	38	7:97		144	8	27.8	м	14 16			58 58	41·15 41·08			27 27	4·7 3·8	M
	1 ,	;		1 11	1	122	- 0	2/0	M	10	,		99	41.08		1	2/	3.8	M

23.2

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Magnitude.	Asce	Right nsion 78.	No. of Wires.	D:	an P istar 1878	ice	Observer.	Number and Date.	Magnitude.	As	n Right cension 1878.	No. of Wires.	Di	an P istan 1878	ce	Observer.
921		Rade	liffe 5	944.					931		62	2 Pegasi	τ				
Nov. 27	4·9 4·5	22 58	54·69 54·65		23	26	52·0 52·2	M M	Nov. 9	<u></u>	23	14 36:09		66	55	38.8	M
922			Gruis.	J	<u> </u>	20	52 2	M	932		98	Aquari	$i b^1$				
Nov. 21	5.0	28 0			134	10	43.8	м	Nov. 8 11		1	16 33·62 16 33·65	1	110	46 46	0·6	M M
923	<u>'</u>	89 <i>A</i>	quari	i c³.	•				933		1	Cassiope	-	<u>!</u>			
Nov. 22		23 3	23.95		113	7	5.9	м	Nov. 15	5.0		19 25.68		28	23	10.4	м
924	-	7 A1	idrome	dæ.					934	!	1	Aquari	,	,			
Nov. 11 15	5·2 5·2	1	57·89 57·84		41		36·3	ì	Nov. 22		23	-			18	35.4	м
925	<u></u>	Laca	ille 94	12.	,			<u>'</u>	27	<u> </u>		19 38:12			18	37.7	M
Nov. 12	5.9	23 9	36.54		152	39	58.2	м	935		8	Piscium	к				Ì
926	·	γ 2	Cucano	e.	<del></del>				Oct. 17 Nov. 16		1	20 40·67 20 40·60		89	24 24	44·0 44·9	C.R
Nov. 14	4.3	23 10	18.15		148	54	18.1	M	25	<u> </u>		20 40.65	1		24		М
927		. 92 4	lquari	iχ					936		70	) Pegasi	iq.				
Nov. 25	5.4	t	31.52		98	23	31.4		Nov. 14	5.2	23	22 59.14		77	54	44.4	M
27	5.4	10	31.27			23	30.7	М	937		Rad	lcliffe 6	092.				
928		6 F	isciun	ιγ					Nov. 21 26	5·2 5·4	23		1	32	7	23.9	М
Oct. 17		23 10	50.36		87	23	3.2	C.R		54	<u> </u>	24 24:24		1	7	24.4	М
21 23		10				23 23	4·0 2·2	C.R	938		β	Sculpton	ris.				
25	, 	10				23	2.5	C.R	Nov. 11	5.4	23	26 25.99		128	29	33.2	M
Nov. 16		10				23	1.5	M	12	5.0	1	26 25·86		120	29	33.3	M
26		10	50.40	<u> </u>		23	3.2	M		<del>'</del>			<u> </u>	<u> </u>			
929		8 47	adrome	dæ.					939	1 5.0		. Aquar			۵.		1
Nov. 21	5.4	23 12	5.70		41	39	2.9	M	Nov. 28	5.0	23	26 53:39		1111	35	51.8	
930		γ Se	ulptor	is.					940	ı		P. L. 158					(
Nov. 28	5.0	23 12	13.83		123	11	47.6	м	May 15 20		1	27 49·27 27 48·95		3	22 22	1·8 0·4	1

Separate Results of Madras Meridian Circle Observations in 1878.

Number and Date.	Mean Right   Mean Polar   Distance   1878.   We   1878.   Mean Polar   Distance   1878.   Mean Polar   Distance   1878.   Mean Polar   Distance   1878.   Mean Polar   Distance   1878.   Mean Polar   Distance   1878.   Mean Polar   Distance   Distance   D	Number and Date.	Magnitude.	Mean l Ascen 187	8.	b D	ean P istan 1878	co. ·	Observer.
941	ι Phænicis.	951 Dec. 6	5.2	ı	siopeiæ 5·74   .		,	40.0	
Nov. 9	5·2 23 28 30·58 133 17 22·7 M	Dec. 6	5 2	<u>'</u>				400	
942	16 $Andromed x \lambda$	952	,		ilptoris.			A	
Nov. 8	23 31 35.68     44 12 11.2   м	Nov. 29		23 42	34.09	118	48	17:1	М
	θ Phænicis—2nd.	953		Radel	<i>iffe</i> 621	15.			
943		Nov. 8	6.6	23 48		1	16	6.8	M
Nov. 25	5·7   23   32   54·61     137   18   54·1   M	9 11	7·0 7·3	48 48	55 41 .		16 16	7·4 8·5	M
	17 Piscium ι			1 -					_
944	17 Fiscium i	954		$\eta$ T	l'ucanæ				
Nov. 21	23 33 40 30 85 2 5 0 M	Nov. 12	5.0	23 51	10.27	154	58	32.6	M
27 29	33 40 49   2 4 5 M     33 40 49   2 4 7 M	14	5.0	51	ł		58		M
Dec. 2	38 40·56 2 4·5 R	Dec. 6	5.3	51	10.24		58	32.0	R
	19 Andromedæ κ	955		27 1	Piscium				
945		Nov. 21	1	23 52	25.63	94	13	56.8	M
Nov. 14	4.6   23   34   24.08     46   20   28.8   M	22		52	25.64		13	57.7	M
946	103 Aquarii A1.	956		$\pi P$	hænicis	•			
Dec. 6	5·1   23   35   14·82     108   42   5·3   R	Nov. 25	5.5	23 52	35.98	143	25	38.5	M
		26	5.4	52	36.14		25	37:9	M
947	104 Aquarii A <sup>2</sup> .	055		28 P	seium	(v)			
Nov. 16	23 35 25·69 108 29 34·0 M	957	1			,			,
		Nov. 28		28 53			48	42·1 41·5	
948	$105~Aquarii~\omega^2$	Doc. 2	1	- 00	2:77	•••	18(3	-11.0	K
Nov. 11	23   36   23·60     105   13   9·7   M	958		$\epsilon T$	ucanæ.				
28	36 23.56 13 9.1 м	Nov. 27	5.0	23 53	34.03	156	15	22.3	м
949	78 Pegasi.				ulptoris	<u>!</u>			
		959	1 .						,
Nov. 15	23 37 51·29     61 18 51·2   M	Nov. 16	6.0	23 56	4.52	120	24	0.7	М
950	20 Andromedie 🗸	960		Radel	liffe 62	97.			
Nov. 22	5·5   23 39 59·51     4·4 15 25·4   M	Nov. 15	6.0	23 58	48.53	29	21	56.0	м

# MEAN POSITIONS OF STARS

OBSERVED WITH THE

# MADRAS MERIDIAN CIRCLE

IN THE YEAR

1878

REDUCED TO JANUARY I OF THAT YEAR

Mean Positions of Stars for 1878, January 1st.

Number	Star.	Magnitude.	Estimations.	Rig	Me ht As	an cension.	Pol	Mea ar Dis	n stance.	Observations.	Fraction of Year.
				h.	1772.	8.		,	,,		
1	21 Andromedæa(Alpherat)			0	2	5.00	61	35	0.3	4	0.89
2	22 Andromedæ	4.9		0	.3	59.06	44	36	23.6	2	0.90
3	κ² Sculptoris	5.7	2	0	5	22.58	118	28	45.4	2	0.90
4	88 Pegasi γ (Algenib)	3.0		0	6	57.27	75	29	41.1	2	0.89
5	7 Ceti	4.6		. 0	8	26.48	109	<b>3</b> 6	32.6	1	0.85
6	CTucanæ	5.0	2	0	13	42:47	155	35	32.0	2	0.88
7	π Tucanæ	4.9	1	0	14	58.91	160	18	9.8	1	0.87
8	Sculptoris	5.5	5	0	15	23.36	119	39	9·5 22·4	5	0.91
9	η Sculptoris	5.3	1	0	21	52·71	123	40	52·9	1	0.85
10	Taylor 107	6.0	3	0	23	24·13	131	20	25.2	3	0.93
11	12 Ceti	0.0							-0 -		
12	11 Dhomisia	6·2 5·3	1	0	23	48.82	94	37	<b>52·5</b>	1	0.94
13	15 Comionaire	5·3 4·2		0	25	31.76	139	28	42.4	1	0.87
14	Torlow 190	5.5	1	0	26	4.65	27	44	29.2	1	0.89
15	12 Dhamisia	5.2	1	0	27	38.88	120	13	50.3	1	0.90
	A Finemois	55	_	U	29	5 <b>1</b> ·81	138	40	12.6	1	0.89
16	17 Cassiopeiæ (	3.7		0	30	10.74	36	46	28.5	1	0.95
17	29 Andromedæ π	4.4		0	30	21.91	56	57	9.9	1	0.93
18	Radcliffe 172	5.0	3	0	32	25.81	41	18	58.8	3	0.90
19	Lacaille 172	5.2	1	0	34	42.29	150	8	25.6	1	0.87
20	20 Cassiopeiæ π	5.0		0	36	<b>43</b> ·03	43	38	34.3	1	0.95
21	λ¹ Sculptoris	5.4	1	0	96	50.55	100	_			
22	16 Ceti <b>ß</b>	2.1	-	0	36 37	50·55	129	7	58.2	1	0.95
23	η Phœnicis	5.0	1	0	37 37	27.77	108 148	39	21.9	5	0.89
24	λ <sup>2</sup> Sculptoris	5.2	1	0	38	52·01 17·93	129	7	57.6	1 1	0.89
25	34 Andromedæ (	4.4		o	40	17.93 52.28	66	5 23	38.7	1	0.96
			"	ľ	20	<i>02</i> 20	00	40	48.1	2	0.90
26	35 Andromedæ v	4.4		0	43	5.30	49	35	9-3	1	0.89
27	19 Ceti φ²	5•3		0	44	0.84	101	18	5.4	3	0.95
28	ρ Phœnicis	<b>5</b> ·6	3	0	45	7.73	141	39	11.0	3	0.89
29	Radcliffe 247	5.4	1	0	48	9.44	41	<b>5</b> 9	0-2	2	0.95
30	37 Andromedæ u	3.9		0	49	58.94	52	9	45.7	3	0.92
31	38 Andromedæ η	4.6		0	50	41.46	67	14	28.6		0.04
32	a Sculptoris	5.1	4	0	52	43.64	120	1	28-6	2 4	0.94
33	71 Piscium e	4.5		0	56	36.77	82	46	1.3	9	0.93
34	ω Phœnicis	5.8	3	0	56	52.03	147	39	35.5	3	0·93 0·94
35	30 Cassiopeiæ μ	5-2		1	0	9.72	35	40	45·0	2	0.94
	}								200		001

ber.	21	In Ri	ght Ascensio	on.	In F	olar Distanc	oe.	ority.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	. 8	8	"	"	u	
1	21 Andromedæ a	+ 3.0788	+ 0.0182	+ 0.010	- 20.054	+ 0.013	+0.16	3215
2	22 Andromedæ	+ 3.0958	+ 0.0328	+ 0.002	- 20.052	+ 0.017	- 0.02	3220
3	κ <sup>2</sup> Sculptoris	+ 3.0553	- 0.0138		- 20:048	+ 0.019		
4	88 Pegasi γ	+ 3.0827	+ 0.0100	- 0.001	- 20.045	+ 0.022	+0.01	1
5	7 Ceti	+ 3.0548	- 0.0082	- 0.003	- 20.041	+ 0.025	+ 0.06	4
6	ζ Tucanæ	+ 2.8963	- 0.0555	+ 0.265	- 20:019	+ 0.034	-1.18	Stone
7	π Tucanæ	+ 2.8283	- 0.0673		<b> 20·012</b>	+ 0.036		
8	ι Sculptoris	+ 3.0212	- 0.0137	•••	<b>- 2</b> 0·009	+ 0.038		
9	η Sculptoris	+ 2.9873	- 0.0156	•••	<b>— 19</b> ·9 <b>62</b>	+ 0.050		
10	Taylor 107	+ 2.9524	- 0.0208		<b>- 1</b> 9·9 <b>4</b> 9	+ 0.023		
11	12 Ceti	+ 3.0610	+ 0.0008	- 0.000	<b>- 1</b> 9·946	+ 0.055	+0.01	38
12	λ¹ Phœnicis	+ 2.8984	- 0.0274	•••	<b>- 1</b> 9·930	+ 0.056		
13	15 Cassiopeiæ κ—1st	+ 3.3609	+ 0.0702	+ 0.000	- 19·925	+ 0.064	+ 0.02	43
14	Taylor 139	+ 2.9785	_ 0.0128		- 19.909	+ 0.061		
15	λ <sup>2</sup> Phœnicis	+ 2.8747	- 0·0257	•	<b>- 19</b> ·884	+ 0.063		
16	17 Cassiopeiæ $\zeta$	+ 3.3071	+ 0.0491	+ 0.002	- 19.881	+ 0.072	+ 0.01	52
17	29 Andromedæ π	+ 3.1872	+ 0.0243	- 0.000	<b>- 19·879</b>	+ 0.070	0.00	53
18	Radcliffe 172	+ 3.2867	+ 0.0419		- 19:854	+ 0.076		
19	Lacaille 172	+ 2.7209	- 0·0357		- 19.825	+ 0.000		
20	2/Cassiopeiæ π	+ 3.2959	+ 0.0392	- 0.003	- 19.797	+ 0.085	+ 0.02	67
21	λ¹ Sculptoris	+ 2.8982	- 0.0173		- 19.796	+ 0.075		
22	16 Ceti 8	+ 2.9988	- 0.0055	+ 0.015	- 19.787	+ 0.080	- 0.03	70
23	η Phœnicis	+ 2.7185	- 0.0324		- 19.781	+ 0.073		
24	λ² Sculptoris	+ 2.8916	- 0.0170		<b>- 19</b> ·775	+ 0.078		
25	34 Andromedso (	+ 3.1759	+ 0.0179	- 0.000	- 19.737	+ 0.090	+ 0.07	78
26	35 Andromedæ $\nu$	+ 3.2850	+ 0.0326	- 0.001	- 19.700	+ 0.097	+ 0.01	87
27	19 Ceti φ²	1 0 0010	- 0.0014	- 0.018	- 19.686	+ 0.092	- 0.23	89
28	ρ Phœnicis		- 0.0246		- 19.666	+ 0.086		1
29	Radcliffe 247	0.0007	+ 0.0434		- 19.613	+ C·110		
30	37 Andromedæ μ		+ 0.0305		- 19.580	+ 0.112	- 0.02	101
31	38 Andromedæ $\eta$	+ 3.1953	+ 0.0178	- 0.003	- 19.566	+ 0.110	+ 0.04	104
32	a Sculptoris	. 0.0001	- 0.0101	1	- 19.526	+ 0.104		
33	71 Piscium e		+ 0 0087		- 19:446	+ 0.119	- 0.04	113
34	ω Phœnicis		- 0.0252	1	- 19:440	+ 0.099		
35	30 Cassiopeiæ μ		+ 0.0577		- 19:367	+ 0.142	+ 1.58	118
11	ar amount of the same in	1 ' 5 5 5 5 2	1		1		1	I

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.		Mean it Asc	eension.	Pola	Mean r Dist	i tance.	Observations.	Fraction of Year.
36	43.4.3.				h.	m.	8.		,	"		
37			5.3	•••	1	1	0.99	46	42	29.6	3	0.94
38	42 Andromedæ φ	•••	4.3	;··-	1	2	25 43	43	24	32.9	1	0.94
39	(Phonicis 2nd		5.1	3	1	3	15.26	145	53	56.0	3	0.89
40	84 Piscium $\chi$		4.9		1	4	53.88	69	36	<b>52</b> ·2	4	0-93
9.0	Taylor 396		<b>5</b> •8	1	1	7	8.07	128	30	10.9	1	0-95
41	37 Ceti		5.0		1	8	15:11	98	0.4	40.0		0.00
42	ν Phœnicis		5.0	1	1	9	40.62	136	34 11	43.6	2	0.96
43	Lacaille 361		6.2	1	1	12	49.45	157	11 2	2.8	1	0.90
44	I Urs. Min. a (Polaris)		2.2		1	14		157	20 20	32·3	6	0.50
45	46 Andromedæ ξ		4.9		1	15	2·08 64 9·4 <del>0</del>	45	20 6	28.0	5	0.59
		1			_	10	<i>3</i> ±0	40	0	<b>3</b> 9·7	9	0.93
46	36 Cassiopeiæ ψ		4.8		1	17	19.71	22	30	25.9	2	0.96
47	45 Ceti θ¹	•••	3.8	•••	1	17	55.20	98	48	47.0	8	0.91
48	c <sup>2</sup> Phœnicis		•••		1	19	16.77	132	7	39.6	1	0.93
49	46 Ceti	•••	5.3		1	19	37.23	105	14	1.5	1	0.90
50	94 Piscium		5.6	•••	1	20	6.40	71	23	33.4	1	0.95
51	48 Andromedæ ω		4.8	<b>.</b>	1	20	21.50	45		24.0		
52	49 Andromedæ A		5.2		1	22	47·38	43	13	24.2	1	0.95
53	99 Piscium η		3.7		1	24	57·31		37	22.5	1	0.95
54	Taylor 502		5.8	4	1	27	28.74	75 127	17	1.4	8	0.59
55	Taylor 504		5.6	1	1	 27	36.37	140	29 21	31.1	4	0.93
	40.7.10	- 1		_	_		00 07	140	41	8.5	1	0.93
56 57	49 Ceti	•••	5.2		1	28	40.11	106	18	7.2	2	0.95
58	50 Andromedæ v		4.2		1	29	38.32	49	12	19.9	2	0.96
59	51 Andromedæ		3.7		1	30	30.44	41	59	24.2	2	0.95
60	Taylor 543 53 Andromedæ τ		5.2	2	1	33	2.29	127	8	43.0	2	0.90
00	55 Andromedæ τ	•••	4.9		1	33	22.78	50	2	29.4	3	0.94
61	Lacaille 499		7.0	1	1	34	49.00	7.50				
62	106 Piscium v		4.7		1	35	48·90 4·87	156	13	36.5	1	1.00
63	p Eridani 1st		5.7	1	1	35	4·87 9·66	85	7	48.1	9	0.42
64	54 Andromedæ		4.2		1	36	1.00	146	48	56.9	1	0.95
65	ψ Phœnicis		6.0	1	1	36	5.83	39 128	55 45	37.9	1	0.95
00	.1.77.*1			_	-	-50	9 30	140	45	8.0	1	0.96
66	q¹ Eridani		5.8	1	1	37	47.18	144	21	8.6	1	0.94
67	e Sculptoris		5.4	5	1	39	55.85	115	39	45.9	5	0.93
68	Taylor 587	•••	5.6	2	1	41	18.89	141	25	36.7	2	0.97
69	53 Ceti χ		4.8		1	43	35.52	101	17	30.3	1	0.90
70	2 Trianguli α		3-6		1	46	7-70	61	0	59.9	3	0.95

9.64

Number.	Star.	In R	ight Ascensi	on.	In P	olar Distanc	е.	ority.
Num	otar.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		s	8	8	"	"	"	
36	41 Andromedæ	+ 3.4036	+ 0.0380	+ 0.014	- 19:348	+ 0.138	+ 0.07	129
37	42 Andromedæ φ	+ 3.4525	+ 0.0429	- 0.003	- 19·316	+ 0.143	+ 0.01	134
38	ζ Phœnicis—2nd	+ 2.5337	- 0.0221	_ 0.021	<b></b> 19·295	+ 0.109	+ 0.02	Stone
39	84 Piscium χ	+ 3.2111	+ 0.0169	₩ 0.001	<b>- 19·256</b>	+ 0.139	- 0.01	150
40	Taylor 396	+ 2.7651	- 0.0126		- 19·199	+ 0.124	•••	
41	37 Ceti	+ 3.0130	+ 0.0014	+ 0.006	- 19:172	+ 0.136	- 0.28	164
42	ν Phœnicis	+ 2.6551	- 0.0159	+ 0.070	<b>-</b> 19·134	+ 0.124	- 0·15	Stone
43	Lacaille 361	+ 2.0862	- 0.0179	+ 0.001	- 19.052	+ 0.103	- 0.01	Stone
44	1 Ursw Minoris a	+ 21.2007	+ 15.4788	+ 0.108	- 19·016	- 0.990	+ 0.00	102
45	46 Andromedæ ξ	+ 3.2011	+ 0.0417	+ 0.002	<b>- 18:9</b> 86	+ 0.172	- 0.01	177
46	36 Cassiopeiæ ψ	+ 4:1404	+ 0.1206	+ 0.011	<b>–</b> 18·923	+ 0.507	₩ 0·01	178
47	45 Ceti θ¹		+ 0.0018	- 0.007	- 18.906	+ 0.154	+ 0.20	184
48	c <sup>2</sup> Phœnicis		- 0.0124		- 18·860	+ 0.139		
49	46 Ceti	+ 2.9483	- 0.0008	+ 0.001	<b>-</b> 18·856	+ 0.154	- 0.01	190
50	94 Piscium	+ 3.2264	+ 0.0163	+ 0.001	- 18·842	+ 0.169	+ 0.04	189
51	48 Andromedæ ω	+ 3.5280	+ 0.0420	+ 0.031	- 18·834	+ 0.184	+ 0.10	186
52	49 Andromeda A	+ 3.5680	+ 0.0447	1 '	<b>–</b> 18·760	+ 0.191	+ 0.04	196
53	99 Piscium η	+ 3.1994	+ 0.0141	- 0.000	- 18.692	+ 0.177	+ 0.00	203
54	Taylor 502	+ 2.6902	- 0.0095		- 18:610	+ 0.154		l
55	Taylor 504	+ 2.4704	- 0.0136		- 18.607	+ 0.142		
56	49 Ceti	+ 2.9248	- 0.0008	+ 0.004	- 18.572	+ 0.169	- 0.01	210
57	50 Andromedæ υ	1	+ 0.0369	1 .	- 18.540	+ 0.503	+ 0.37	209
58	51 Andromedæ		+ 0.0483	+ 0.002	- 18·511	+ 0.212	+ 0.11	212
59	Taylor 543		- 0.0086	1 '	- 18.424	+ 0.162		
60	53 Andromedæ $\tau$	1	+ 0.0360		- 18:413	+ 0.211	+ 0.02	221
61	Lacaille 499	+ 1.8522	- 0.0057		- 18:362	+ 0.117		
62	106 Piscium v	1	+ 0.0001	- 0.003	- 18:353	+ 0.191	- 0.01	228
63	p Eridani—1st	1	- 0.0118		- 18.350	+ 0.140		
64	54 Andromedæ	+ 3.7221	+ 0.0528	+ 0.001	- 18.320	+ 0.228	+ 0.03	227
65	ψ Phœnicis		- 0.0089		- 18:317	+ 0.165		
66	$q^1$ Eridani	+ 2.3007	- 0.0118		<b>–</b> 18·256	+ 0.147		
67	€ Sculptoris		- 0.0038		- 18.178	+ 0.180	+ 0.08	Stone
68	Taylor 587		- 0.0108		- 18.126	+ 0.155		
69	53 Ceti χ		+ 0.0021		- 18.040	+ 0.196	+ 0.09	242
70	2 Trianguli α		+ 0.0250			+ 0.229	+ 0.53	245
		1 , 5 2002	, 50200	0000	1 2,032	0 220	1 0 20	1

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Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Pola	Mear r Dist	i sance.	Observations.	Fraction of Year.
					h.	m.	ε,	0	,	"		
71	5 Arietis γ¹ (Sout	1	5.0		1	<b>4</b> 6	50-18	71	18	18.5	1	0.97
72	5 Arietis γ <sup>2</sup> (Nort	h)	5.1		1	46	50.31	71	18	9.9	1	0.97
73			2.8		1	47	54-09	<b>6</b> 9	47	21.7	9	0.42
74	1 -		5.0	2	1	48	45.43	136	54	2.5	2	0.96
75	φ Phœnicis .		5.0	1	1	49	18.21	133	5	46.5	1	0.96
76	η¹ Hydri	•• •••	7.5	1.	1	49	29.82	158	32	45.8	1	1.00
77	Taylor 646 .		5.2	2	1	52	19.80	137	58	<b>54</b> ·1	2	0.91
78	59 Ceti υ	••	3.8		1	54	15.35	111	40	11.1	2	0.94
79	113 Piscium a-2r	nd	4.0		1	55	43.84	87	49	34.4	4	0.94
80	ν Fornacis .		5.7	2	1	<b>5</b> 9	1.14	119	52	57.8	2	0.96
81	13 Arietis a .		2.0		2	0	17:83	67	6	55·6	11	0.45
82	0 Main 1: 5		5.0		2	9	36.44	56	20	6·7	2	0.01
83	67 Cati		5.2		2	10	53.88	96	59	5·0	8	0.93
84	-1 Tr-d-:	•••	5.8	3	2	11	41.96	158	24	44·6	3	0.02
85	-2 Deci-	•••	5.7	4	2	12	56· <b>5</b> 9	158	18	45.3	4	0.04
		•••		-	-		0000	100	10	40 0	1	
86		··· ···	5.2		2	13	51.35	34	42	48.8	5	0.95
87			5.7	3	2	17	24.79	133	45	31.0	3	0.03
88	1		5.7	3	2	18	<b>36</b> ·99	141	38	58.1	3	0.94
89	1		4.5	3	2	19	2.04	23	8	50.7	3	0.02
90	72 Ceti ρ	•••	4.9		2	20	3.25	102	50	29.7	2	0.94
91	73 Ceti ξ <sup>2</sup>		4.4		2	21	40.37	82	5	<b>14</b> ·7	3	0.97
92	κ Eridani		4.8	2.	2	22	30.80	138	15	6.9	. 2	0.98
93	75 Ceti		5.6		2	25	56.95	91	34	30.0	2	0.95
94	76 Ceti σ		4-7		2	26	18.02	105	46	51.4	2	0.96
95	78 Ceti v		4.9		2	29	28.40	84	56	23.9	4	0.92
96	81 Ceti		5.7		2	31	33.03	00		01-#		0:01
97	η Horologiî			2	2	33	22.78	93 143	55 4	31·7 18·4	2 2	0·91 0·96
98	83 Ceti e				2	33	39.77	102	23	27.3	1	0.94
99	Taylor 906		6.0	1	2	35	8.74	133	23 24		1	1.00
100	13 Persei θ		1		١ .	35	52·35	41	17	57·1 20·8	1	0.97
	0" 1-1-1										1	
101	35 Arietis	••• ••	1		2	36	17.74	62	48	46.7	2	0.94
102	86 Ceti γ-2nd	•••			2	36	58.77	87	16	46.2	6	0.33
103	1 Eridani $\tau^1$	•••	1		2	39	24.63	109	5	24.1	2	0.95
104	39 Arietis	•••	1		2	40	38-76	61	15	40.0	2	0.96
105	$\gamma$ Fornacis	•••	. 5.9	2	2	44	26.69	115	3	46.0	2	0.96

ber.	Star.		In Rig	ght	Ascensio	on.	In P	olar Distan		rity.
Number.	Star.		Annual Precession.		ocular riation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		1	8		s	8	u	"	"	
71 72	5 Arietis $\gamma^1$ 5 Arietis $\gamma^2$	Я	+ 3.2756	+	0.0172	+ 0·004	- 17·91 <b>4</b>	+ 0.222	+ 0.10 }	248 249
73	6 Arietis β		+ 3.2955	+	0.0183	+ 0.002	- 17.872	+ 0.226	+ 0.10	252
74	Taylor 629		+ 2.4194	-	0.0089		- 17:839	+ 0.169		
75	φ Phœnicis		+ 2.4981	-	0.0083	- 0.012	<b>-</b> 17·816	+ 0.175	+0.04	Stone
76	η¹ Hydri		+ 1.5081	+	0.0091		<b>– 17</b> ·809	+ 0.109	•••	
77			+ 2:3737	_	0.0084	•••	- 17 693	+ 0.171		
78			+ 2.8183	_	0.0013	+ 0.007	<b>- 17</b> ·613	+ 0.204	+ 0.02	273
79	113 Piscium a		+ 3.0969		0.0084	+ 0.002	- 17·551	+ 0.226	+ 0.01	277
80	20 .		+ 2.6910	_	0.0036	•••	- 17:409	+ 0.202		
81	13 Arietis α		+ 3:3551	+	0.0203	+ 0.013	<b>–</b> 17·354	+ 0.252	+0.13	287
82	0.00 1 11 0		+ 3.5494	+	0.0296	+ 0.090	- 16.932	+ 0.284	+ 0·22	317
83	CT C -+:	]	+ 2.9837	+	0.0049	+ 0.004	- 16·871	+ 0.242	+0.11	321
84	.1 7r 3:		+ 1.2357	+	0.0211		- 16 833	+ 0.105	, 011	
85	0.77 7.		+ 1.2297	+	0.0213	•••	- 16·774	+ 0.105	•••	
				١.			,	, , ,	•••	
86	9 Persei i		+ 4.1365	+	0.0730	- 0.002	— 16·730	+ 0.339	+ 0.01	326
87	Taylor 798		+ 2.3498	-	0.0043		- 16·556	+ 0.200	•••	
88	Taylor 810	[	+ 2.1114	-	0.0032		<b>— 16·497</b>	+ 0.182	•••	
89	Radcliffe 706		+ 4.8551	+	0.1310	•••	- 16.476	+ 0.410	`	•••
90	72 Ceti ρ		+ 2.8974	+	0.0031	- 0.003	<b></b> 16·425	+ 0.249	- 0.00	343
91	73 Ceti ξ <sup>2</sup>		+ 3.1800	+	0.0117	÷ 0·001	- 16·344	+ 0.276	+ 0.00	347
92	κ Eridani		+ 2.1996	-	0.0033	+ 0.000	<b>— 16·300</b>	+ 0.194	- 0.04	Stone
93	75 Ceti		+ 3.0504	+	0.0074	- 0.002	- 16·123	+ 0.271	+ 0.03	354
94	76 Ceti σ		+ 2.8471	+	0.0024	- 0.006	- 16·104	+ 0.256	+ 0.11	356
95	78 Ceti v		+ 3.1440	+	0.0103	0.002	<b>- 15</b> ·938	+ 0.285	+ 0.03	362
96	81 Ceti		+ 3.0159	+	0.0066	+ 0.002	<b>–</b> 15·827	+ 0.277	+ 0.03	368
97	** 1 **		+ 1.9686		0.0001		- 15·728	+ 0.185	+ 0.02	Stone
98	83 Ceti ε		+ 2.8897	+	0.0038	+ 0.008	- 15.713	+ 0.269	+ 0.25	375
99			+ 2.2798		0.0022	+ 0.000	- 15·631	+ 0.215	+ 0.03	Stone
!!!!	•		+ 4.0297		0.0508	+ 0.033	- 15.592	+ 0.376	+ 0.09	374
,,		1	1 0.5050			0.000				
101	000.0	-1	+ 3.5052		0.0233	- 0.002	- 15·569	+ 0.329	+ 0.01	380
102		-1	+ 3.1125		0.0004	- 0.011	- 15·531	+ 0.294	+ 0.16	383
1 1	00'4 4 10	-1	+ 2.7757		0.0016	+ 0.022	- 15·396	+ 0.267	- 0.05	390
104		-1	+ 3.5451	•	0.0253	+ 0.010	- 15·326	+ 0.340	+ 0.11	389
105	γ Fornacis		+ 2.6611	+	0.0008	•••	<b>—</b> 15·109	+ 0.261		

Mean Positions of Stars for 1878, January 1st.

er.													
Number.	Star.			Magnitude.	Estimations	Right	Mear Asc	ension.	Polar	Mean Dista	ince.	Observations.	Fraction of Year.
1 1						h.	m.	s.	0	,	"		
1	η <sup>2</sup> Fornacis	•••		5⁺7	2	2	45	18.76	126	21	0.9	2	0.93
11 1	$2$ Eridani $ au^2$	•••	•••	4.8		2	<b>4</b> 5	30.10	111	30	27.8	2	0.96
11 1	η <sup>3</sup> Fornacis	•••		5.7	1	2	<b>4</b> 5	44.67	126	10	43.9	1	0.93
11 1	Lacaille 943	***	**-	5.8	1	2	49	6.97	158	1	<b>25</b> ·9	1	0.95
110	4 Eridani	•••	•••	5.4	•••	2	51	58.11	114	21	9.3	3	0.97
111	6 Eridani			6.1		2	52	40.15	<b>1</b> 14	5	50.6	2	0.94
11	92 Ceti a (Menke			2.7		2	55	54.12	86	23	22.3	8	0.39
41 1	23 Persei γ	•••		3·1		2	<b>5</b> 5	57·86	36	23 58	21.1	1	0.96
11	10 Eridani ρ³	•••		5.4		2	58	17:01	98	4	44·5	2	0.94
	27 Persei ĸ	•••		4.0		3	1	16.05	45	36	23.8	2	0.98
						_	-		10		200	"	
31	28 Persei ω	•••	•••	4:7	•••	3	3	25.02	50	51	11.2	2	0.95
11 1	R. P. L. 33	•••	•••	58		3	3	43.13	5	31	34.0	6	0.33
11 1	57 Arietis δ	•••	•••	4.5		3	4	39.29	70	44	10.7	3	0.34
11	95 Ceti	•••	•••	5.7		3	12	<b>7</b> ·98	91	22	<b>32</b> ·8	2	0.95
120	96 Ceti κ¹	•••	•••	5.0		3	12	<b>57</b> ·80	87	4	41.7	1	1.00
11 1	15 Eridani	•••		5.0		3	12	58·35	112	57	28.2	1	0.97
122	e Eridani	•••	•••	46	2	3	15	3.60	133	32	14.9	2	0.97
123	Radcliffe 956	•••	•••}	4.3	2	3	19	11.89	30	29	12.6	2	0.95
11 1	Radcliffe 969	•••	•••	5.4	1	3	20	42.32	34	58	18.2	1	0.95
125	35 Persei σ	•••		4.4		3	21	58:59	42	25	40.0	1	0.95
126	R. P. L. 34	•••		5.9		3	26	42.06	. 3	44	29.2	4	0.17
127	37 Persei ψ			4.2		3	27	49:21	42	12	51.8	2	0.96
128	Lacaille 1164			5.7	2	3	29	37.33	156	54	12.7	2	0.96
129	10 Tauri			4.4		3	30	38.83	89	<b>5</b> 9	10.8	3	0.95
130	22 Eridani	•••		5.4		3	34	35.93	95	36	20.6	2	0.98
131	40 Persei o			5.0		3	36	40.15	58	e	0.0		0.00
132	25 Tauri η (Alc			3.0		3	40	14.04	66	6 16	0·0 26·6	1	0.99
133	28 Tauri (Pleio			5.6	1	3	41	55·66	66	14	26.6 13.7	8	0.05
134	44 Persei Ç			3.1		3	46	27.82	58	28	50.1		0.97
135	32 Eridani (S)	•••		5.1		3	48		93	28 19	90.1	1 2	0·95 0·98
136	υ <sup>5</sup> Eridani												
137	45 Persei e	•••	•••	5-2	1	3	49		125	5	39.5	1	0.94
138	34 Eridani $\gamma^1$	•••	•••	3.0		3	49		50	20	39.2	1	0.97
139	36 Eridani 79	•••	•••	3-1	•••	3			103	51	24.8	8	0.06
140	38 Tauri v	•••	•••	4-6 4-0		3			114	21	48.5	1	0.95
1	33 14411 7	•••	•••	#10		3	56	39.97	84	21	0.3	1	0.97

ber.	SI	In Rig	ght Ascensio	on.	In Po	olar Distance	e.	ority.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Procession.	Secular Variation.	Proper Motion.	Authority.
		s	s	s	,,	"	,	
106	η <sup>2</sup> Fornacis	+ 2.4226	- 0.0009		<b>—</b> 15·060	+ 0.239		
107	2 Eridani τ²	+ 2.7240	+ 0.0016	- 0.006	<b>-</b> 15·049	+ 0.268	+ 0.02	404
108	η <sup>3</sup> Fornacis	+ 2.4252	- 0.0008		<b>–</b> 15·035	+ 0.240		
109	Lacaille 943	+ 0.8434	+ 0.0342		- 14:837	+ 0.089		
110	4 Eridani	+ 2.6596	+ 0.0014	+ 0.002	<b>- 14</b> ·668	+ 0.270	+ 0.03	418
111	6 Eridani	+ 2.6631	+ 0.0012	₹ 0·001	- 14 627	+ 0.272	+ 0.00	423
112	92 Ceti a	+ 3.1308	+ 0.0098	- 0.003	- 14:431	+ 0.323	+0.07	428
113	23 Persei γ	+ 4:3057	+ 0.0594	- 0.005	<b>–</b> 14·428	+ 0.442	+ 0.00	422
114	10 Eridani ρ <sup>3</sup>	+ 2.9391	+ 0.0057	+ 0.003	<b>- 14·286</b>	+ 0.306	- 0.01	435
115	27 Persei κ	+ 4.0029	+ 0.0410	+ 0.012	<b>- 14·101</b>	+ 0.421	+ 0.16	438
116	28 Persei ω	+ 3.8532	<b>+</b> 0.0336	- 0.003	- 13·966	+ 0.409	- 0.02	443
117	R. P. L. 33	1 10.0004	+ 1.6070	+ 0.045	- 13·948	+ 1.368	+ 0.12	402
118	57 Arietis δ	0.4000	+ 0.0171	+ 0.010	<b>- 13</b> ·889	+ 0.364	- 0.01	446
119	95 Ceti	1 0.0100	+ 0.0079	+ 0.016	- 13.410	+ 0.336	- 0.07	461
120	96 Cetiκ¹		+ 0.0004	+ 0.016	- 13:357	+ 0.345	- 0·11	463
121	15 Eridani	+ 2.6498	+ 0.0024	- 0.000	- 13·355	+ 0.294	- 0.01	466
122	e Eridani	0.1150	+ 0.0017	+ 0.266	<b>- 13</b> ·219	+ 0.238	- 0.75	Stone
123	Radeliffe 956		+ 0.0773		- 12.945	+ 0.541		
124	Radcliffe 969		+ 0.0610		<b>- 12</b> ·846	+ 0.515		
1.25	35 Persei $\sigma$	1.0000	+ 0.0436	0.000	<b>- 12.753</b>	+ 0.477	- 0.02	479
126	R. P. L. 34	+ 19.1122	  + 3·2427	+ 0.136	<b>- 12</b> ·436	+ 2.192	+ 0.00	Gr.
127	37 Persei ψ	4.0000	+ 0.0436	+0.002	- 12:359	+ 0.491	+ 0.04	488
128	1		+ 0.0357		- 12·235	+ 0.073		
129		0.0701	+ 0.0082	- 0.016	- 12·163	+ 0.361	+ 0.50	497
130	22 Eridani	+ 2.9666	0·0065	- 0.003	- 11.886	+ 0.353	- 0.01	505
131	40 Persei o	+ 3.7469	+ 0.0235	- 0.000	- 11.740	+ 0.448	+ 0.00	501
132	1		+ 0.0177	- 0.000	- 11.486	+ 0.430	+ 0.04	521
133			+ 0.0175	- 0.001	- 11.364	+ 0.432	+ 0.06	528
134		1 2.75.00	+ 0.0221	- 0.000	- 11.035	+ 0.462	+ 0.00	534
135		1 0 0000	+ 0.0070	+ 0.002	- 10.911	+ 0.373	+ 0.00	540
136	υ <sup>3</sup> Eridani	+ 2.2822	+ 0.0026	- 0.003	<b>- 10</b> ·848	+ 0.285	+ 0.05	Stone
137		+ 4.0061	+ 0.0289	1	- 10.800	+ 0.497	+ 0.02	539
138	1	+ 2.7923	+ 0.0047		- 10.602	+ 0.351	+ 0.11	546
139		+ 2.5551	+ 0.0033		- 10.424	+ 0.322	- 0.02	551
140		+ 3.1859	+ 0.0093	1		+ 0.403	+ 0.01	553
120	1	1			1		1	

126.—Proper motions from Greenwich Catalogue of 1872.

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Polas	Mean r Dist	ance.	Observations.	Fraction of Year.
		1			h.	m.	s.	۰	,	,,		
141	R. P. L. 35		6-7		3	58	49.26	4	<b>4</b> 6	10.9	2	0.76
142	38 Eridani o¹	•••	4.1		4	5	54.60	97	9	22.7	1	0.07
143	51 Persei μ	•••	4.2		4	5	56.45	41	<b>54</b>	9.7	2	0.98
144	δ Horologii		5.0	5	4	6	44.31	132	18	46.4	5	0.06
145	ψ Horologii—1st		5.2	1	4	15	24.71	134	33	40.3	1	0.99
146	θ Reticuli		5.4	5	4	16	18.93	153	33	8.2	5	0-07
147	74 Tauri		3.7		4	21	29.56	71	5	31.4	7	0.08
148	78 Tauri θ <sup>2</sup>		3.6		4	21	41.42	74	24	11-1	1	0.99
149	δ Cœli		5.3	5	4	27	6.18	135	13	0.0	5	0.06
150	87 Tauri a (Aldebar	an)	1.0		4	28	55.28	73	44	15.8	3	0.09
151	& Cœli		F.0	_		a=						
152	The state of	•••	l	5 5	4	37	44.65	127	23	2.2	5	0.07
153	κ Doradûs			1	4	39	38·96	140	42	41.4	5	0.08
154	3 Aurigæ		0.0	_	4	42 49	2.98	149	57	26.8	1	0.06
155	γ¹ Cœli		1	5	5	49	1.51	57	1	43.5	6	0.09
	, , , , , , , , , , , , , , , , , , , ,	•		"		U	1.21	125	39	3.6	5	007
156	γ² Cœli		5.6	5	5	0	4.92	125	52	33.5	5	0.07
157	2 Leporis €		3.3		5	0	17.75	112	32	9.6	5	0.10
158	β Mensæ		. 5.7	5	5	4	18.39	161	28	54.1	5	0.08
159	19 Orionis & (Rige		š		5	8	40.47	98	20	37.7	3	0.12
160	o Columbæ	• •	. 5.0	5	5	13	5.15	125	0	<b>56·4</b>	5	0.08
161	θ Doradûs		. 5.0	5	5	13	51.52	157	19	23.2	5	0.08
162	Ç Pictoris			5	5	16	22.59	140	44	25 Z 15·4	5	0.09
163	112 Tauri β		. 1.9		5	18	34:81	61	29	51·6	4	0.07
164	κ Pictoris		51.	5	5	20	7:47	146	14	57.3	5	0.09
165	θ Pictoris-2nd		5.6	5	5	22	0.29	142	25	23.3	5	0.11
166	R. P. L. 40											
167		-	1			23	4.22	4	52	14.4	6	0.18
168	1 7 7		1		1 -	25	46.45	90	23	25.0	2	0.12
169	97 Orionia 41		1		_	27	20.96	107		- 38.5	1	0.12
170	1	•	3.7		1 _	28		80	35	39.9	5	0.08
H		••	"  ",	"	1 °	28	25.05	80	8	<b>56</b> ·8	5	0.09
171	1	•	1.8		5	30	1.32	91	16	52.2	3	0.13
172		٠	1		5	30	12-12	80	46	36.7	5	0.10
173		•	1		5	35	13.88	124	8	23.7	2	0.11
174	,	•	1		ł	41		104	52	6.6	5	0.07
175	μ Columbæ		5.5	5	5	41	27.78	122	21	15.0	5	0.08

.68

ber.	Qt		In R	ight Ascensi	on.	In I	Polar Distanc	e.	Authority.
Number.	Star.		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Autho
	V. 14.14		8	8	8	,,	,,	"	
141	R. P. L. 35		+ 16.9065	+ 1.8087	+ 0.057	10.117	+ 2.132	- 0.05	Gr.
142	38 Eridani oʻ		+ 2.9248	+ 0.0028	- 0.001	<b>-</b> 9·576	+ 0.379	- 0.09	568
143	51 Persei μ		+ 4.3814	+ 0.0362	- 0.001	- 9·573	+ 0.565	+ 0.03	564
144	δ Horologii		+ 2.0008	+ 0.0039	+ 0.013	<b>-</b> 9·513	+ 0.261	0.00	Stone
145	ψ Horologii1st		+ 1.8903	+ 0.0045	- 0.002	- 8·837	+ 0.251	- 0.03	Stone
146	θ Reticuli		+ 0.6550	+ 0.0231	- 0.009	<b>- 8.76</b> 6	+ 0.090	+ 0.02	Stone
147	74 Tauri €		- <del> -</del> 3·4886	+ 0.0120	+ 0.007	- 8·357	+ 0.460	+0.03	609
148	78 Tauri θ <sup>2</sup>		- <del> </del> - 3·4116	+ 0.0110	+ 0.006	— 8·34·1	+ 0.456	- <del> -</del> 0.00	613
149	δ Cœli	•••	+ 1.8343	+ 0.0048	0.006	<b>-</b> 7·909	+ 0.249	+ 0.04	Stone
150	87 Tauri α		+ 3.4318	+ 0.0105	+ 0.004	<b>-</b> 7.762	- - 0·46·4	+0.18	630
151	ß Cœli		+ 2.1158	+ 0.0036	<b>- 0.00</b> 6	- 7:044	+ 0.292	- O·20	Stone
152	λ Pictoris		+ 1.5376	+ 0.0068	+ 0.001	<b>– 6.888</b>	+ 0.214	- 0.02	Stone
153	к Doradûs	•••	+ 0.8915	+ 0.0141		- 6·505	+ 0.125		
154	3 Auriga	<b>,</b>	- - 3:8982	+ 0.0144	+ 0.001	- 6.110	+ 0.544	+ 0.00	677
155	γ¹ Cœli		- <b> - 2</b> ·1460	+ 0.0033	+ 0.007	- 5.189	+ 0.304	+ 0.00	Stone
156	γ² Cœli		+ 2.1382	+ 0.0034	- 0.000	- 5.184	+ 0.303	- 0.10	Stone
157	2 Leporis ←		+ 2.5362	+ 0.0033	+ 0.000	<b>—</b> 5·165	+ 0.359	+ 0.07	713
158	β Mensω		- 0.8024	+ 0.0393		<b>-</b> 4·825	- 0.112	•••	
159	19 Orionis \$		+ 2.8810	+ 0.0040	- 0.001	- 4·454	+ 0.412	- 0.01	736
160	o Columbie		- <del> -</del> 2·1557	+ 0.0032	+ 0.010	- 4:077	+ 0.310	+ 0.31	Stone
161	θ Doradûs		- 0 <sup>.</sup> 0628	+ 0.0206		- 4.010	- 0.007	- 0.04	Stone
162	ζ Pictoris		+ 1.4662	+ 0.0023	+ 0.003	- 3.795	+ 0.212	- O·14	Stone
163	112 Tauri β		+ 3.7864	+ 0.0082	+ 0.001	- 3.605	+ 0.545	+ 0.18	756
164	κ Pictoris	• • •	+ 1.1016	+ 0.0071	<b> 0</b> ·004	- 3-472	+ 0.159	- O.00	Stone
165	0 Pictoris—2nd		+ 1.3585	+ 0.0055		- 3.309	+ 0.196	+ 0.04	Stone
166	R. P. L. 40		+ 18.5579	+ 0.6238		<b>-</b> 3·234	+ 2.672		
167	34 Orionis δ		+ 3.0632	+ 0.0038	- 0·001	<b>–</b> 2·984	+ 0.443	+0.01	787
168	, -		+ 2.6445	+ 0.0029	- 0.001	- 2.848	+ 0.383	- O·01	796
169	37 Orionis φ¹	٠	+ 3.2915	+ 0.0043	- 0.002	- 2.781	+ 0.476	+ 0.00	792
170	39 Orionis λ	•••	+ 3:3022	+ 0.0044	- 0.002	<b>–</b> 2·755	+ 0.478	+ 0.02	794
171	46 Orionis e		+ 3.0426	+ 0.0035	- 0.002	- 2.616	+ 0.441	- O·01	809
172	40 Orionis φ <sup>u</sup>		+ 3.2875	+ 0.0042	+ 0.004	- 2.600	+ 0.476	+ 0.31	805
173	a Columba	•••	+ 2.1710	+ 0.0027	+ 0.002	- 2:164	+ 0.316	+ 0.03	Stone
174	14 Leporis ζ		+ 2.7185	+ 0.0026	- 0.002	- 1.624	+ 0.396	- 0.01	843
175	μ Columbæ		+ 2.2281	+ 0.0027	- 0.002	- 1.620	+ 0.325	+ 0.04	Stone

Mean Positions of Stars for 1878, January 1st.

3													
Number.	Star.			Magnitude.	Estimations	Right	Mea Asc	n ension.		Mean Dist		Observations.	Fraction of Year.
			İ	1	1	h.	m.	s.	•	,	,,		
176	β Pictoris	•••		4.5	5	5	44	23.89	141	6	41.2	5	0.09
177	8 Doradûs			4.5	5	5	44	33.39	155	46	<b>54</b> ·2	5	0.11
178	15 Leporis 8			4.0		5	46	4.45	110	53	25.4	5	0.10
179	γ Pictoris	•••		4.6	4.	5	47	36.76	146	11	51.7	5	0.13
180	58 Orionis α (Bet	elgeuz	)	Var.		5	48	34.04	82	37	1.0	8	0.14
181	λ Columbæ	•••		5.0	5	5	48	41.03	123	49	44·8	5	0.12
182	e Doradûs			5.1	5	5	50	1.47	156	55	54.3	5	0.09
183	61 Orionis μ	•••	•••	4.3		5	55	40:36	80	21	14.6	5	0.08
184	R. P. L. 43			6.6	.,.	5	58	15.57	3	14	14.8	5	0.22
185	67 Orionis v		•••	4:4		6	0	36.43	75	13	5.8	8	0.16
186	18 Leporis 0	•••		4-6		. 6	0	38:06	104	<b>5</b> 5	31.8	5	0.10
187	π¹ Columbæ			5-7	5	6	2	54.78	132	17	2.8	5	0.09
188	6 Columbæ	•••		5-1	5	6	3	20.60	127	14	9.2	5	0.11
189	π² Columbæ	***		5.6	5	6	4	5.62	132	8	8.3	5	0.12
190	70 Orionis &	•••	•••	4.2		6	5	0.17	75	45	55.8	5	0.08
191	44 Aurigæ κ	•••		4.5		6	7	36-27	60	27	30.7	5	0.14
192	5 Monocerotis			4.0	1	6	8	54.40	96	14	19.6	5	0.13
193	ν Doradûs	•••		5.6	4	6	9	31.18	158	49	1.1	4	0.13
194	η² Doradûs	•••		5'5	5	6	10	59.61	155	33	39.8	5	0.08
195	к Columba			4.5	5	6	12	12.64	125	6	3.9	5	0.08
196	13 Geminorum A	٠		3.2		6	15	34.81	67	25	3 <b>2·7</b>	12	0.11
197	λ Canis Majoris	•••		4·1	<b> </b>	6	23	38.89	122	30	15.4	6	0.13
198	π¹ Doradûs	• • •	•••	5· <b>6</b>	5	6	23	47.50	159	55	0.0	5	0.12
199	π² Doradûs		•••	5.6	5	6	26	31.01	159	37	15.3	5	0.14
200	4 Canis Majoris	ξ1	•••	4.2		6	26	46.35	113	19	54.8	5	0.14
201	5 Canis Majoris	ξ2	•	4.4		6	29	56· <b>6</b> 6	112	52	9:1	5	0.14
202	μ Pictoris	•••		5.5	5	6	30	9·10	148	39	43.4	5	0.15
203	24 Geminorum	γ	٠	2.0		6	30	39.82	73	29	54.6	11	0.11
204	7 Canis Majoris	<b>ν</b> 2		4.2	·	6	31	21.62	109	9	10.4	4	0.16
205	8 Canis Majoris	y <sup>3</sup>		47		- 6	32	31:39	108	7	57.7	4	0.14
206	Taylor 2633			5.0	5	6	35	22.59	138	6	41.8	5	0.13
207	Lalande 12863		٠.,	7.6	2	6	35	26.27	83	32	25.9	2	0.06
208	18 Monocerotis			4.8		6	41	30.07	87	27	20.1	5	0.11
209	51 Cephei (Hev.	)		50		6	42	46:13	2	46	5.4	2	0.19
210	x Puppis			5·1	5	y 6	43	10.88	127	47	45.9	5	0.13

184.—Groombridge 1004.

Number.	Star.		In Ri	ght Ascensi	on.	In l	Polar Distan	ce.	lty.
Nun			Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
			8	s	s	,,	"		
176	ß Pictoris		+ 1.4186	+ 0.0036		- 1·364	+ 0.207	- 0.06	Stone
177	δ Doradûs		+ 0.1066	+ 0.0082	- 0.002	- 1·351	+ 0.016	+ 0.02	Stone
178	15 Leporis 8	•••	+ 2.5630	+ 0.0024	+ 0.016	- 1.218	+ 0.374	+ 0.65	858
179	γ Pictoris		+ 1.0782	+ 0.0043		- 1.083	+ 0.157		
180	58 Orionis a		+ 3.2453	+ 0.0027	+ 0.001	- 1·000	+ 0.473	- 0.02	860
181	λ Columbae		+ 2.1774	+ 0.0025	0.000	- 0.990	+ 0.317	- 0.09	Stone
182	€ Doradûs		- 0.0639	+ 0.0070	- 0.003	- 0.872	- 0.009	- 0.09	Stone
183	61 Orionis μ		+ 3.2995	+ 0.0022	+ 0.000	<b>—</b> 0·379	+ 0.481	- 0.02	877
184	R. P. L. 43		+ 26.7064	+ 0.0575		- 0 152	+ 3.894		
185	67 Orionis v		+ 3.4250	+ 0.0017	- 0.000	+ 0.053	+ 0.200	+ 0.01	887
186	18 Leporis θ		+ 2 <sup>.</sup> 7159	+ 0.0021	- 0.002	+ 0.055	+ 0.396	- 0.01	892
187	π¹ Columba	•••	+ 1.8566	+ 0.0023	•••	+ 0.254	+ 0.271		
188	θ Columbæ		+ 2.0563	+ 0.0022	- 0.007	+ 0.293	+ 0.300	- 0.01	Stone
189	π² Columbæ		+ 1.8630	+ 0.0023	•••	+ 0.358	+ 0.272		
190	70 Orionis ξ		+ 3.4113	+ 0.0013	- 0.001	+ 0.438	+ 0.496	+ 0.02	903
191	44 Auriga k		+ 3.8296	+ 0.0003	- 0:005	+ 0.666	+ 0.558	+ 0.26	907
192	5 Monocerotis		+ 2.9262	+ 0.0016	- 0.001	+ 0.779	+ 0.426	+ 0.06	920
193	v Doradûs		- 0.3746	- 0.0011	1	+ 0.832	- 0.054		
194	η² Doradûs		+ 0.1338	- 0.0003		+ 0.963	+ 0.019		
195	κ Columba		+ 2.1342	+ 0.0021		+ 1.068	+ 0.311		
196	13 Geminorum $\mu$		+ 3.6268	- 0.0003	+ 0.004	+ 1.362	+ 0.527	+ 0.10	929
197	λ Canis Majoris		+ 2.2250	+ 0.0018	- 0.007	+ 2.066	+ 0.322	0.00	Stone
198	π¹ Doradûs		- 0·5647	- 0.0095		+ 2.083	- 0.079	- 0.08	Stone
199	π² Doradûs		— 0·5025	- 0.0104		+ 2.315	- 0.074	- 0.09	Stone
200	4 Canis Majoris ξ¹	•••	+ 2.4995	+ 0.0012	- 0.006	+ 2.338	+ 0.361	- 0.01	962
201	5 Canis Majoris ξ <sup>2</sup>		+ 2.5131	+ 0.0014	+ 0.002	+ 2.613	+ 0.362	- 0.03	972
202	μ Pictoris		+ 0.8957	- 0.0015		+ 2.632	+ 0.129		
203	24 Geminorum γ		+ 3.4648	- 0.0015	+ 0.002	+ 2.675	+ 0.200	+ 0.04	969
204	7 Canis Majoris ν <sup>2</sup>	•••	+ 2.6122	+ 0.0013	+ 0.003	+ 2.735	+ 0.376	+ 0.04	978
205	8 Canis Majoris $\nu^3$		+ 2.6388	+ 0.0013	- 0.001	+ 2.837	+ 0.380	- 0.02	879
206	Taylor 2633		+ 1.5992	+ 0.0008		+ 3.083	+ 0.230		
207	Lalande 12863		+ 3.2226	- 0.0007		+ 3.088	+ 0.463		
208	18 Monocerotis		+ 3.1307	- 0.0006	- 0.002	+ 3.615	+ 0.447	+ 0.01	995
209	51 Cephei (Hev.)		+ 30.2428	- 2.1382	0.040	+ 3.721	+ 4.331	+ 0.02	Gr.
210	x Puppis		+ 2.0537	+ 0.0014	0.001	+ 3.755	+ 0.292	+ 0.06	114

209. - Proper motions from Greenwich Catalogue of 1880.

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Right	Mean Asco	n ension.	Pola	Mear r Dist	i cance.	Observations.	Fraction of Year.
011	0.46				h.	m.	s.	0	,	"		
211	34 Geminorum θ	•••	3.7	•••	6	44	44.81	55	53	36.3	5	0.14
212	Taylor 2727		5.0	4	6	46	25.97	124	13	26.7	4	0.12
213	Taylor 2731		5.4	6	6	46	28.09	136	29	6.7	6	0.15
214	Taylor 2742	***	5.2	5	6	47	12.06	143	28	48.0	5	0.16
215	u Puppis		5.6	5	6	47	24:30	126	4	56.3	5	0.15
216	14 Canis Majoris θ		4.2		6	48	31.49	101	53	11.8	5	0.14
217	18 Canis Majoris μ		5.2		6	50	31.21	103	53	11.6	5	0.14
218	20 Canis Majoris :		4.5		6	50	41.72	106	53	48.9	อี	0.16
219	ι Volantis		5.8	5	G	52	50.48	160	48	41.2	5	0.16
220	21 Canis Majoris e		1.2		6	<b>5</b> 3	49.88	118	48	25.6	4	0.11
				}							1	
221	t Puppis	•••	5.0	5	6	53	57.11	123	56	49.0	5	0.13
222	23 Canis Majoris γ		4.1		G	58	14.36	105	27	14:3	11	0.13
223	Taylor 2843	•••	4.6	5	7	0	10.71	132	9	56.8	5	0.14
224	Taylor 2866		5.6	5	7	3	7:45	130	42	10.6	5	0.13
225	46 Geminorum τ	[	4.6		. 7	3	22.43	59	38	23:4	5	0.14
226	Taylor 2885		5.1	5	7	4	45.10	129	27	37.7	5	0.14
227	Radcliffe 1887	•••	4.5		7	5	18.19	7	21	34.4	5	0.17
228	22 Monocerotis		4.0		7	5	38.07	90	17	29.7	5	0.17
229	Taylor 2920	•••	5.1	5	7	8	13.27	130	17	36.1	5	0.15
230	Taylor 2934		5.0	5	7	9	4.97	136	33	22.6	5	0.16
231	27 Canis Majoris		<b>4</b> ·5		7	9	16 <sup>.</sup> 82	116	8	34.7	5	0.16
232	Taylor 2938		5.0	5	7	9	34.28	134	58	17.1	5	0.15
233	γ Volantis—2nd		5.0	5	7	9	46'56	160	18	3.2	5	0.18
234	30 Canis Majoris		4.3		7	13	38.91	114	43	56.6	5	0.14
235	Taylor 2982		5.1	5	7	14	23.94	128	59	16.7	5	0.14
236	δ Volantis		5.0	1 6	7	16	53· <b>0</b> 0	1.57	44	2.3	6	0.14
237	62 Geminorum ρ		4.2		7	21	15.70	57	58	27·9	5	0.13
238	Taylor 3075		5.0	5	7	24	22.42	121	12	19·8	5	0.15
239	κ <sup>3</sup> Puppis		5.1	5	7	25	58·07	120	42	24.0	5	0.15
240	66 Geminorum a <sup>2</sup> (Cas	tor).	2.8		7	26	48.89	57	50	44.8	16	0.20
241	n¹ Puppis		4.0		-	60	0.04					
242	nº Puppis	•••	4·9 5·8	5	7 7	29	9.34	113	12	31.8	5	0.17
243	g Puppis	•••	5·8 5·8	5	7	29	9.94	113	12	34.5	5	0.17
244	10 Can. Min. α (Procyc	۰۰۰			4		27:12	115	51	1.6	5	0.17
245		110 ]	0·5 4·8	5	7 7		54.92	84	27	46.7	3	0.14
290	κ¹ Puppis	•••	41.0	9	1	33	49.31	116	31	31.0	5	0.17

12.0

Observed with the Madras Meridian Circle in that Year.

er.	Q.	In Ri	ght Ascensi	on.	In F	Polar Distanc	œ.	rity.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	8	s	ı,	"	,,	
211	34 Geminorum θ	+ 3.9604	- 0.0071	- 0.000	+ 3.891	+ 0.565	+ 0.03	1003
212	Taylor 2727	+ 2.1814	+ 0.0012	- 0.001	+ 4.035	+ 0.310	- 0.04	Stone
213	Taylor 2731	+ 1.6930	+ 0.0006	•••	+ 4:038	+ 0.240		
214	Taylor 2742	+ 1.3050	- 0.0011	•••	+ 4:102	+ 0.184		
215	u Puppis	+ 2.1187	+ 0.0014		+ 4 119	+ 0.301		
				9.73				
216	14 Canis Majoris θ	+ 2.7971	+ 0.0004	- 0.011	+ 4.215	+ 0.397	+ 0.00	1011
217	18 Canis Majoris μ	+ 2.7497	+ 0.0002	- 0.002	+ 4.385	+ 0.389	- 0.01	1017
218	20 Canis Majoris 1	+ 2.6760	+ 0.0008	- 0.002	+ 4.400	+ 0.379	- 0.02	1019
219	ι Volantis	- 0.6678	- 0.0276	•••	+ 4.583	- 0.097	•••	
220	21 Canis Majoris ε	+ 2.3572	-⊦ 0·0013	- 0.001	+ 4:667	+ 0.332	- 0.02	1023
221	t Puppis	+ 2.1971	+ 0.0013	- 0.004	+ 4.677	+ 0.310	- 0.07	Stone
222	23 Canis Majoris $\gamma$	+ 2.7145	+ 0.0002	- 0.002	+ 5.041	+ 0.381	+ 0.00	1028
223	Taylor 2843	+ 1.9033	+ 0.0008		+ 5.206	+ 0.266	•••	
224	Taylor 2866	+ 1.9655	+ 0.0010		+ 5.454	+ 0.274	•••	
225	46 Geminorum $\tau$	+ 3.8280	- 0.0090	- 0.003	+ 5.475	+ 0.232	+ 0.02	1033
226	Taylor 2885	+ 2.0153	+ 0.0011	- 0.008	+ 5.590	+ 0.280	+ 0.02	Stone
227	3-3-1:W- 100H	+ 13.0065	- 0.4912	+ 0.000	+ 5.637	+ 1.818	+ 0.03	
228	20.36		~ 0.0016	- 0.001		· .	·	Main
229	m- 1 - 0000		+ 0.0000				- 0.03	104/7
230	Taylor 2920		- 0·0001	- 0.010		+ 0.274	+ 0.05	Stone
230	Taylor 2934	+ 1.7243	- 00001	•••	+ 5.954	+ 0.237	•••	
231	27 Canis Majoris	+ 2.4458	+ 0.0011	- 0.002	+ 5.970	+ 0.338	- 0.02	1059
232	Taylor 2938	+ 1.7977	+ 0.0003	•••	+ 5.994	+ 0.247	•••	
233	γ Volantis—2nd	- 0.4901	- 0.0333		+ 6.012	- 0.071		
234	30 Canis Majoris	2.4879	+ 0.0010	- 0.002	+ 6:334	+ 0.341	- 0.03	1069
235	Taylor 2982	+ 2.0466	+ 0.0000	- 0.018	+ 6.396	+ 0.280	0.00	Stone
								1
236	δ Volantis	- 0.0111	- 0.0251	- 0.004	+ 6.602	- 0.004	0.00	Stone
237	62 Geminorum $\rho$	+ 3.8564	- 0.0124	+ 0.000	+ 6.963	+ 0.525	- 0.19	1078
238	Taylor 3075	+ 2.3166	+ 0.0011		+ 7.217	+ 0.315	•••	
239	κ <sup>3</sup> Puppis	+ 2.3334	+ 0.0011		+ 7:348	+ 0.314	- 0.04	Stone
240	66 Geminorum a <sup>2</sup>	+ 3.8531	- 0.0133	- 0.012	+ 7.416	+ 0.519	+ 0.08	1087
241	n <sup>1</sup> Puppis	+ 2.5418	+ 0.0007		+ 7.606	L 0:240		
242						+ 0.340	•••	
243	D		+ 0.0007		+ 7.607	+ 0.340	•••	
H	g Puppis	+ 2.4732	+ 0.0010	0.047	+ 7.630	+ 0.331		
244	10 Canis Minoris a	+ 3.1914	- 0.0041	- 0.047	+ 7.910	+ 0.425	+ 1.03	1106
245	κ¹ Puppis	+ 2.4601	+ 0.0010		+ 7.982	+ 0.326	•••	

Mean Positions of Stars for 1878, January 1st.

Number.	Star.			Magnitude.	Estimations.	Righ	Mea: t Asc	n ension.	Pola	Mean r Dist		Observations.	Fraction of Year.
						h.	m.	8.		,	"		ì
246	κ <sup>2</sup> Puppis	×		5.3	5	7	33	49.96	116	31	38.4	5	0.18
247	26 Monocerotis γ			4.2	\	7	35	25.12	99	16	3.9	5	0.18
248	78 Geminorum 8	(Pollu	vx)	1.1		7	37	<b>5</b> 0·94	61	40	51.4	2	0.17
249	3 Puppis	•••.	•••	5.1	5	7	38	<b>54</b> ·65	118	39	51.2	5	0.17
250	Taylor 3214		•	4.7	5	7	39	32.64	.130	38	11.6	5	0.16
251	c Puppis		,	5.0	5	7	40	<b>54</b> ·44	127	40	23.3	5	0.16
252	o Puppis	•••		5.1	5	7	43	0.82	115	38	6.6	5	0.18
253	(Volantis			6.6	3	7	43	18.56	162	18	50.0	3	0.24
254	Taylor 3279			4.5	3	7	45	31.28	136	3	58.9	3	0.12
255	9 Puppis			5·1	4	7	46	7.29	103	34	31.3	4	0.19
256	R.P.L. 49			6.7		7	47	29·12	5	35	39.4	3	0.50
257	Taylor 3297			5·1	5	7	47	42.34	124	23	57.7	5	0.18
258	a Puppis	•••		5.0	4	7	48	1.40	130	15	44.0	4	0.24
259	b Puppis	•••		5.0	4	7	48	19.47	128	32	52.5	4	0.19
260	Taylor 3317	•••		5.0	5	7	49	37.25	139	17	47.0	5	0.17
261	B. F. 1129			5.2	5	7	54	23.88	108	3	55.4	5	0.16
262	Taylor 3362	•••		5.0	5	7	54	43.82	138	54	50.4	5	0.18
263	6 Cancri	•••		5.0		7	56	1.37	61	51	54.9	10	0.17
264	15 Argûs	•••		2.9	1	8	2	20.89	113	57	12.0	4	0.17
265	29 Monocerotis	•••		4.5	""	8	2	27.73	92	37	46.2	5	0.24
			1										}
266	16 Puppis	•••	•	5.0	5	8	3	34.79	108	53	17.2	5	0.15
367	γ Argûs—1st	•••		5.0	5	8	5	43.80	136	59	11.9	5	0.17
268	Taylor 3478	•••	•••	5-8	2	8	6	43.03	145	43	34.9	2	0.23
269	Taylor 3484	•••	•••	5.2	3	8		59.17	150		56.7	3	0.23
270	h¹ Puppis	•••	•••	5.6	2	8	7	0.07	129	15	20.4	2	0.23
271	Taylor 3480 .	•••		5.4	2	8	7	18.64	132	37	25.1	2	0.22
272	€ Volantis			5.1	3	8	7	31-71	158	15	33.0	3	0.22
273	20 Puppis	•••		5.1	5	8	7	43-43	105	25	17.6	5	0.18
274	r Puppis	•••		5.0	5	8	8	53-28	125	31	<b>54·2</b>	5	0.17
275	17 Cancri <b>6</b>	•••	•••	3.8		. 8	9	53.79	- 80	26	22.8	5	0.16
276	30 Lyncis			5•9		. 8	3 10	34.13	31	. 52	41.4	1	0.24
277	Lacaille 3275	•••		5.8	2	1	3 13	25.08	152	32		2	0.23
278	q Puppis			5∙0	5	. ε	3 13		126	16		5	0.15
279	31 Lyncis	•••		44	١	.   8	3 14		46	25		1	0.25
280		•••		5∙0	1	1	3 14		36	3 23	19:4	1	0.25

256.—Groombridge 1359.

Number.	Star.		In R	ight	Ascensi	on.	In	Polar	Distanc	e.	Authority.
Nun			Annual Precession.		ecular riation.	Proper Motion.	Annual Precession.		cular iation.	Proper Motion.	Auth
			8		8	ε	. "		,	,,	
246	κ <sup>2</sup> Puppis	•••	+ 2.4601	+	0.0010		+ 7.984	+	0.326	•••	
247	26 Monocerotis $\gamma$		+ 2.8728	-	0.0011	- 0.008	+ 8.110	+	0.380	+ 0.02	1110
248	78 Geminorum 🖇		+ 3.7280	-	0.0128	- 0.048	+ 8.302	+	0.491	+ 0.02	1112
249	3 Puppis		+ 2.4084	+	0.0011	- 0.002	+ 8.389	+	0.315	+ 0.05	Stone
250	Taylor 3214		+ 2.0314	+	0.0008		+ 8.439	+	0.265	•••	
251	c Puppis		+ 2.1384	+	0.0011	0.000	+ 8.547	+	0.278	0.00	Stone
252	o Puppis		+ 2.4944	+	0.0008	- 0.004	+ 8.715	+	0.324	0.00	Stone
253			- 0·7016	-	0.0610	•••	+ 8.737	_	0.006	•••	
254	Taylor 3279		+ 1.8291	-	0.0001	- 0.002	+ 8.911	+	0.235	0.00	Stone
255	9 Puppis		+ 2.7834	-	0.0000		+ 8.958	+	0.359	•••	
256	R. P. L. 49		+ 15.2467	_	1.2388	•••	+ 9.064	+	1.979	•••	
257	Taylor 3297		+ 2.2561	+	0.0014	- 0.019	+ 9.082	+	0.290	- 0.32	Stone
258	a Puppis	•••	+ 2.0635	+	0.0010	•••	+ 9.106	+	0.264	•••	
259	b Puppis		+ 2.1238	+	0.0012	•••	+ 9.130	+	0.272	•••	
260	Taylor 3317		+ 1.6925	-	0.0012	•••	+ 9.230	+	0.212	- 0.02	Stone
261	B. F. 1129	•••	+ 2.6894	+	0.0002	•••	+ 9.599	+	0.340		
262	Taylor 3362	•••	+ 1.7271	-	0.0010	•••	+ 9.626	+	0.217	•••	
263	6 Cancri		+ 3.6975	_	0.0148	<b>-</b> 0.003	+ 9.724	+	0.468	+ 0.04	1149
264	15 Argûs :	•••	+ 2.5609	+	0.0009	- 0.008	+ 10.205	+	0.318	- 0.00	1170
265	29 Monocerotis	•••	+ 3.0194	-	0.0031	- 0.003	+ 10.211	+	0.375	- 0.02	1168
266	16 Puppis		+ 2.6797	+	0.0003		+ 10.297	+	0.332		
267	γ Argûs—1st	٠.,	+ 1.8496		0.0000	•••	+ 10.458	+	0.226		
268	Taylor 3478		+ 1.4028	_	0.0052	•••	+ 10.532	+	0.169		
269	Taylor 3484		+ 1.0268	-	0.0129		+ 10.552	+	0.122		
270	h1 Puppis	•••	+ 2.1432	+	0.0012	•••	+ 10.553	+	0.261		
271.	Taylor 3480	•••	+ 2.0269	+	0.0011	•••	+ 10.575	+	0.246		
272	€ Volantis	•••	+ 0.2255	-	0.0364	- 0.015	+ 10.592	+	0.023	- 0.06	Stone
273	20 Puppis	•••	+ 2.7593	-	0.0004	•••	+ 10.600	+	0.337		
274	r Puppis		+ 2.2646	+	0.0018	- 0.004	+ 10.693	+	0.275	+ 0.02	Stone
275	17 Cancri β		+ 3.2622	-	0.0072	- 0.004	+ 10.768	+	0.397	+ 0.04	1180
276	30 Lyncis		+ 4.8825	-	0.0611	+ 0.005	+ 10.818	+	0.595	0.04	1178
277	Lacaille 3275	•••		-	0.0157	•••	+ 11.026	+	0.108		
278	q Puppis	•••	+ 2.2539	+	0.0020	- 0.017	+ 11.068	+	0.269	+ 0.11	Stone
279	31 Lyncis		+ 4.1316	-	0.0311	+ 0.001	+ 11.104	+	0.497	+ 0.11	1183
280	Radcliffe 2130	••	+ 4.5825		0.0492		+ 11.110	1+	0.552		

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Pol	Mea ar Dis	n itance.	Observations.	Fraction of Year.
		1			h.	m.	s.		,	"		
281	w Puppis		5.0	5	8	16	34.69	122	40	1.9	5	0.15
282	Lacaille 3308		$5\cdot 2$	5	8	18	46.42	138	5	57.0	5	0.15
283	Taylor 3582		5.6	3	8	19	33.88	93	30	35.0	3	0.23
284	Taylor 3589		6.0	3	8	19	47.76	113	39	4.3	3	0.23
285	Taylor 3590		9.2	5	8	19	50.80	113	39	1.5	5	0.25
286	1 Ursæ Majoris o		3.4		8	20	7.00	28	52	33.1	5	0.17
287	2 Ursæ Majoris A		5.3	<b> </b>	8	23	40.18	24	26	26.1	2	0.25
288	β Volantis		5.0	5	8	24	24.37	155	43	48.1	5	0.15
289	33 Cancri η		5.2		8	25	39.10	69	8	44.7	10	0.20
290	4 Ursæ Majoris π <sup>2</sup>		4.8		8	29	32.00	25	14	51.5	5	0.24
291	Taylor 3702		5.5	3	8	31	0.21	139	31	28.4	3	0.23
292	4 Hydræ δ		4.1		8	31	11.75	83	52	18.3	5	0.15
293	Taylor 3717		5.7	2	8	32	13.57	140	32	49.4	2	0.24
294	e Velorum		5.0	5	8	33	21.25	132	33	46.4	5	0.16
295	f Mali		5.2	5	. 8	34	38.67	119	7	39.9	5	0.26
296	Taylor 3742		6.0	1	8	35	16.80	142	39	39.8	1	0.28
297	b Mali		5.0	5	8	35	19.69	124	52	34·4	5	0.15
298	d Carinæ		5.0	5	8	37	55·15	149	19	34.4	5	0.25
299	a Mali		4.4	5	8	38	41.43	122	44	50.7	5	0.22
300	48 Cancri		4.2	•••	8	39	18.86	60	47	41.2	1	0.24
301	11 Hydræ e		3.6		8	40	18.73	83	8	2.8	3	0.19
302	a Velorum		5.0	5	8	41	53.47	135	35	46.5	5	0.25
303	13 Hydræ ρ		4.3		8	41	58.04	83	42	43·6	2	0.25
304	14 Hydræ		5·1		8	43	13.94	92	59	29.5	4	0.25
305	f Carinæ		5·1	5	8	43	33.30	146	19	18·6	5	0.22
306	g Velorum		5·5	5	8	45	34:55	134	51	16:8	5	0.94
307	16 Hydræ ζ		3.3		8	48	56.79	83	35	26.8	5	0.24
308	R. P. L. 60		7.0		8	49	35.06	5	20	0.7	1	0·24 0·20
309	8 Ursæ Majoris ρ		5.0		8	51	31.03	21	53	47.1	3	0.20
310	c Carinæ		5.4	6	8	52	17:11	150	10	43.2	6	0.25
311	12 Ursæ Majoris κ		3.7		8	55	17:35	49	97			
312	11 Ursæ Majoris $\sigma^1$		5.3		8	57	39.32	42 22	21	43.4	5	0.24
313	Radcliffe 2271		5.1	5	8	58	45.90	51	38 3	18:0	3	0.28
314	13 Ursæ Majoris σ²		4.8		8	59	38.80	22	3 22	40.0	5	0.25
315	c Velorum		5.0	5	8	59	56.90	136	36	17·4 46·8	5	0.24
										-20 U	9	0.21

308.—Carrington 1286.

Number.	Star.			In Ri	ght	Ascensio	n.	In F	olar	Distanc	e.	ity.
Na	made (many management)		An	nual cession.		cular riation.	Proper Motion.	Annual Precession.		cular riation.	Proper Motion.	Authority.
503	75	- 1	١.	8		8	8	u		"	"	
281	- <del>-</del>	•••	+	2.3628		0.0020	•••	+ 11.256	+	0.280		
282	Lacaille 3308	•••	+	1.8471	+	1	- 0.007	+ 11.414	+	0.217	- 0.01	Stone
283	Taylor 3582	•••	+	3.0050	-	0.0032		+ 11:472	+	0.356		
284	Taylor 3589	•••	+	2.5923	+	0.0011		+ 11.488	+	0.302		
285	Taylor 3590	•••	+	2.5924	+	0.0011		+ 11.492	+	0.302		
286	1 Ursæ Majoris o		+	5.0573	-	0.0763	- 0.019	+ 11.511	+	0.599	+ 0.11	1186
287	2 Ursæ Majoris A		+	5.4546	-	0.1036	- 0.010	+ 11.764	+	0.640	+ 0.06	1198
288	β Volantis		+	0.6764	-	0.0251	- 0.009	+ 11.816	+	0.075	+0.12	Ston
289	33 Caneri η		+	3.4821	-	0.0129	- 0.004	+11.904	+	0.404	+0.05	1207
290	4 Ursω Majoris π <sup>2</sup>	•••	+	5.3249	-	0.1002	- 0.011	+ 12:176	+	0.613	- 0.02	1200
291	Taylor 3702		+	1.8335	+	0.0003		+ 12:278	+	0.207		
292	4 Hydra δ		+	3.1857	-	0.0065	- 0.007	+12.292	+	0.362	+ 0.00	121
203	Taylor 3717		+	1.7931	_	0.0002		+12.362	+	0.201		
204	c Velorum		+	2.1093	+	0.0023		+12.440	+	0.236	+ 0.02	Ston
295	f Mali		+	2.4906	4.	0.0023	•••	+ 12.528	+	0.279		
296	Taylor 3742	•••	+	1.7069	-	0.0012		+12.572	+	0.189		
297	b Mali		+	2.3464	+	0.0028		+ 12.575	+	0.262		
298	d Carina	•••	+	1.3326	_	0.0080		+ 12.750	+	0.145	+ 0.02	Stor
200	a Mali		+	2.4104	1+	0.0028		+ 12.803	+	0.266		
300	48 Cancri ι	•••	+	3.6462	-	0.0194	- 0.002	+ 12.844	+	0.403	+ 0.03	123
301	11 Hydræ €	• • •	. +	3.1954	_	0.0071	- 0.014	+12.912	+	0.351	+ 0.02	124
302	a Velorum		. +	2.0339	+	0.0023	- 0.009	+ 13.017	+	0.220	- 0.04	Sto
303	13 Hydrω ρ	٠.	Ι.	3.1843	_	0.0068	- 0.003	+13.022	+	0.347	+0.02	124
304	-	,.	Ι.	3.0194	_	0.0032		+13.106	+	0.328		<b> </b>
305			1 .	1.5555	-	0.0032		+ 13.127	+	- 0.165	+ 0.02	Sto
306	y Velorum		+	2.0744	+	0.0028		+ 13:261	+	0.221		
307			Ι.	3.1834	1-	0.0069	- 0.008	+ 13.480	1	- 0.338	- 0.02	126
309	-		Ι.	13.6483	1_	1.7103		+ 13.521	+	- 0.464		
	8 Ursa Majoris p			5.5099	1-	0.1365	- 0.004	+ 13.646	+	- C·584	- 0.02	125
310			Ι.	1.3685	-	0.0078		+ 13.695	+	- 0.140		
311	12 Ursæ Majoris <i>n</i>		+	4:1300	-	0.0434	- 0.004	+13:886	+	- 0.429	+ 0.07	127
	11 Ursa Majoris o				_	0.1305	+ 0.001	+ 14.035	1	- 0.554	+ 0.02	127
(	Radeliffe 2271		1 .	3.8402	_	0.0303	1	+ 14:104	+	- 0.393		
314			1		1_	0.1336		+ 14:159	+	- 0.550	+ 0.06	127
10.14	6 c Velorum	••	] +		1.	0.0035		+ 14:177	1 -1	- 0.208	- 0.14	Sto

Mean Positions of Stars for 1878, January 1st.

			je.	ng.				1			ons.	Jo .	Ī
Number.	Star.		Magnitude.	Estimations	Righ	Mea at As	an scension.	Pola	Mea ar Dis	n stance.	Observations	Fraction of Year.	
					ħ.	m.	8.	۰	,	"	1		
316	14 Ursæ Majoris $ au$		4⋅8		9	0	50.43	25	<b>5</b> 9	28.7	1	0.26	
317	Taylor 3991		5.6	2	9	2	41.54	115	22	1.7	2	0.22	
318	E Carinæ		5.2	3	9	4	38.16	160	2	54.7	3	0.27	1
319	16 Ursæ Majoris c	•••	5.2		9	4	40.98	28	4	31.8	5	0.24	
320	e Mali	•••	5.2	3	9	4	46.43	119	52	4.7	3	0.28	
321	18 Ursæ Majoris e	•••	4.9		9	7	24:22	35	28	32.1	3	0.25	
322	a Carinæ		5.0	5	9	7	45.35	148	28	3.8	5	0.22	
323	l Velorum		5.0	2	9	10	48.51	128	3	43.3	2	0.28	
324	k² Velorum		5.5	2	9	10	52.35	126	54	19.1	2	0.27	
325	83 Cancri		6.6		9	12	10.26	71	46	43.4	6	0.21	
326	g Carinæ		5.4	3	9	12	45:41	147	1	52·8	3	0.24	
327	26 Hydræ		4.9	l l	9	13	53.93	101	27	37.2	6	0.32	ll
328	27 Hydræ		4.9		9	14	31.61	99	2	19.8	4	0.27	
329	h Mali		5.0	5	9	16	5.40	115	26	48.9	5	0.22	
330	l Leonis κ		4.6		9	17	32.88	63	17	34.0	2	0.26	
331	k Carinæ		5·4	4	9	18	0.05	757	**				
332	30 Hydræ a, Var. 2	•••	Var	1 1	9	21	0.95	151	53	8.4	4	0.25	
333	Argelander 196	•••	5.0	3	9	21	35.48	98	7	49.1	1	0.22	
334	23 Ursæ Majoris h	•••	3.7		9		44:37	95	32	20.3	3	0.27	
335	31 Hydræ $\tau^1$	•••	4.9	***	9	21 22	53·90 57·27	26 92	24	22·6 9·9 4:0	5	0.25	To all
		•••	30		9	24	57.27	92	14	4:0	3	0.35	[9.8]
336	n Carinæ		5.3	5	9	24	5· <del>14</del> .	154	24	5.5	5	0.27	
337	ε Antliæ	•••	<b>5</b> ·5	4	9	24	12.60	125	25	6.5	4	0.20	
338	ζ¹ Antliæ—1st		6.2	3	9	25	32.39	121	21	17.7	3	0.25	
339	ζ¹ Antliæ—2nd		6.0	1	9	25	32.82	121	21	11:3	1	0.23	
340	ζ² Antliæ	•…	6.0	3	9	26	19.08	121	20	6.7	3	0.27	
341	10 Leonis Minoris		4.7		9	26	44.63	53	3	39.6	3	0.29	
342	Taylor 4218		5.0	1	9	27		146	29	48·7	1	0.26	
343	Lacaille 3917		5.2	5	9	29	30.88 21.76	138	27	\$1.7 <del>51.</del> 0	5	0.27	140.7
344	Taylor 4233		5.5	2	9	29	54.93	140	42	44.2	1		[49.7]
345	h Carinæ	•	<b>5</b> ·0	5	9	30	54·18	148	41	9.1	5	0·32 0·23	
346	y Velorum		5·5	3	9	33	15·59	790					
347	35 Hydræ :		4.2		9	33	37·58	132	38	26.9	3	0.27	
348	38 Hydræ κ		49		9	34	27.41	90	35	22.7	3	0.27	
349	m Carinæ		5.1	5	9	35	58.33	103	46	45.8	2	0.32	
350	28 Ursæ Majoris		5.1	5	9	36		150	46	34.8	5	ð·24	
		[		1 1	ð	90	31.41	25	47	<b>9.9</b>	5	0.29	

5.19

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In R	ight Ascensi	on.	In P	olar Distanc	e.	prity.
Nun	Succession .	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	s	8	u	"	"	
316	14 Ursæ Majoris $\tau$	+ 5.0042	- 0.1036	+ 0.014	+ 14.232	+ 0.209	+ 0.07	1279
317	Taylor 3991	-+- 2·6294	+ 0.0028		+ 14:346	+ 0.263		
318	E Carinæ	+ 0.5213	- 0.0426	- 0.001	+ 14.464	+ 0.047	+ 0.02	Stone
319	16 Ursæ Majoris c	+ 4.8080	- 0.0913	- 0.002	+ 14.467	+ 0.480	+ 0.03	1288
320	e Mali	+ 2.5408	+ 0.0037		+ 14.473	+ 0.251		
321	18 Ursæ Majoris c	+ 4:3553	- 0.0616	+ 0.006	+ 14:631	+ 0.433	<b>—</b> 0.07	1297
322	a Carinæ	+ 1.5844	- 0.0029		+ 14.653	+ 0.152		
323	l Velorum	+ 2.3678	+ 0.0051	- 0.015	+ 14.834	+ 0.227	+ 0.08	Stone
324	k² Velorum	+ 2 3967	+ 0.0050		+ 14.837	+ 0.229		
325	83 Cancri	+ 3.3665	- 0.0134	- 0.009	+ 14.913	+ 0.323	+ 0.14	1309
326	g Carina	1.2001	0.0004					l
327	00.11	+ 1.6981	- 0.0004		+ 14.948	+ 0.159		
328	OF TY 1	+ 2.8926	- 0.0004	- 0.003	+ 15.014	+ 0.274	0.02	1314
329	1 35 11	+ 2.9317	- 0.0012	- 0.002	+ 15.050	+ 0.277	+ 0:01	1317
330		+ 2.6551	+ 0·0035 - 0·0191	0.000	+ 15.140	+ 0.247	1.0.04	1000
330	I Leonis k	+ 3.2101	- 0.0131	- 0.003	+ 15.224	+ 0.327	+ 0.04	1320
331	k Carina	+ 1.4472	- 0.0063		+ 15.250	+ 0.130		
332	30 Hydræ a	+ 2.9505	- 0.0013	- 0.002	+ 15.452	+ 0.268	<b></b> 0·05	1330
333	Argelander 196	+ 2.9896	- 0.0023		+ 15.460	+ 0.271		
334	23 Ursæ Majoris $h$	+ 4.7861	- 0.0926	+ 0.014	+ 15.468	+ 0.438	- 0.03	1323
335	31 Hydræ $\tau^1$	+ 3.0392	- 0.0036	+ 0.008	+15.527	+ 0.274	+ 0.00	1334
336	n Carina	+ 1.3168	- 0.0102		+ 15:589	+ 0.114		
337	e Antlico	1 :	+ 0.0059	•••	+ 15.597	+ 0.550	···	
338	ζ¹ Antliæ—1st		+ 0.0023	•••	+ 15.670	+ 0.227	"	l
339	ζ¹ Antlico—2nd		+ 0.0023		+ 15.670	+ 0.227		
340	ζ² Antliæ		+ 0.0023	3	+ 15.712	+ 0.226		
	•			8				
341	10 Leonis Minoris	+ 3.6955	- 0.0295	+ 0.001	+15.735	+ 0.327	+ 0.01	1340
342	Taylor 4218	+ 1.8255	+ 0.0028	- 0.015	+ 15.777	+ 0.157	+ 0.01	Stone
343	Lacaille 3917	+ 2.1502	+ 0.0067		+15.877	+ 0.185		
344	Taylor 4233	1	+ 0.0003		+ 15.905	+ 0.178		
345	h Carina	+ 1.7413	+ 0.0014		+ 15.959	+ 0.147		
346	y Velorum	+ 2.3367	+ 0.0075		+ 16.083	+ 0.197		l
347			- 0.0041		+ 16.102	+ 0.260	+ 0.06	1356
348			+ 0.0009	4	+ 16.144	+ 0.242	- 0.01	1362
349	l ·	1.0000	+ 0.0000	1	+ 16.224	+ 0.136	- 0.00	Stone
350		1.000	- 0.1081	1	+ 16.251	+ 0.395	+ 0.03	1355
11		1 ' 2000'	1 2002	1 ' 5552	1	1	1	1

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Mean Positions of Stars for 1878, January 1st.

Number.	Star.	0	Magnitude.	Estimations.	Rigl	Me: nt As	an scension.	Pola	Mea ar Dis	n stance.	Observations.	Fraction of Year.	
					h.	m.	ε.	0	,	"		***************************************	
316	14 Ursæ Majoris τ	•••	4.8		9	0	50.43	25	<b>5</b> 9	28.7	1	0.26	
317	Taylor 3991		5.6	2	9	2	41.54	115	22	1.7	2	0.52	
318	E Carinæ	•••	5.2	3	9	4	38.16	160	2	54.7	3	0.27	
319	16 Ursæ Majoris c	•••	5.2		9	4,	40.98	28	4	31.8	5	0.54	
320	e Mali	•••	5.5	3	9	4	46.43	119	52	4.7	3	0.28	
321	18 Ursæ Majoris e		4.9		9	7	24.22	35	28	32.1	3	0.25	
322	a Carinæ		5.0	5	9	7	45.35	148	28	3.8	5	0.22	
323	l Velorum		5.0	2	9	10	48.51	128	3	43.3	2	0.22	
324	k² Velorum		5.2	2	9	10	52.35	126	54	19.1	2	0.25	H
325	83 Cancri		6.6		9	12	10.26	71	46	43.4	6		11
			- •	"			10 20	1 "	-10	40 4	"	0.21	
326	g Carinæ		5.4	3	9	12	45.41	147	1	52.8	3	0.24	
327	26 Hydræ		4.9		9	13	53.93	101	27	37.2	6	0.25	
328	27 Hydræ	•••	4.9		9	14	31.61	99	2	19.8	4	0.27	H
329	h Mali		5.0	5	9	16	5.40	115	26	48.9	5	0.22	
330	l Leonis κ		4.6		9	17	32.88	63	17	34.0	2	0.26	]]
331	k Carinæ		5.4	4	9	10	0.05	7.51	<b>.</b>				}
332	30 Hydræ a, Var. 2		Var		9	18	0.95	151	53	8.4	4	0.25	
333	Argelander 196		5.0	3	9	21 21	35.48	98	7	49.1	4	0.22	
334	23 Ursæ Majoris h	***	3.7	1 1	9	21	44.37	95	32	20.3	3	0.27	
335	31 Hydræ $\tau^1$	***	4.9	***	9		53.90	26	24	22·6	5	0.25	
		***	ים וד	""	9	22	57·27	92	14	4.5	3	0.35	[9.8]
336	n Carinæ		5.3	5	9	24	5.14	154	24	5.5	5	0.27	
337	€ Antliæ		5.2	4	9	24	12.60	125	25	6.5	4	0.20	
338	ζ¹ Antliæ—1st		6.2	3	9	25	32.39	121	21	17.7	3	0.25	
339	ζ¹ Antliæ—2nd		6.0	1	9	25	32.82	121	21	11:3	1	0.23	[]
340	Dz Antliæ		6.0	3	9	26	19.08	121	20	6.7	3	0.25	
341	10 Leonis Minoris		4.5		_				-	- •		~,	
342	Tarion 4919	•••	4.7		9	26	44.63	53	3	39.6	3	0.29	
343	T		5·0	1	9	27	30.88	146	29	48.7	1	0.26	.
344	Torlor 4999		5.5	5	9	29	21.76	138	27	51-0	5	0.27	149.
345	h Comina		5.5	2	9	29	54.93	140	42	44.2	2	0.32	
	" Carinæ	•••	5.0	5	9	30	<b>54·18</b>	148	41	9.1	5	0.23	
346	y Velorum		5.2	3	9	33	15.59	199	90	90.0			
347	35 Hydræ :		4.2		9	33	37.58	132	38	26.9	3	0.27	l
348	38 Hydræ κ		4.9		9	34	27.41	90	35	22.7	3	0.27	
349	m Carinæ		5.1	5	9	35		103	46	45.8	2	0.32	
	28 Ursæ Majoris		5.1	5	J	U	58.33	150	46	34.8	5	ð·24	0

5-19

er.		In Ri	ght Ascensi	on.	In P	olar Distanc	e.	rity.
Number.	Star.	Annual Procession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	8	8	"	"	u	
351	θ Antliæ	+ 2.6750	+ 0.0052		+ 16.366	+ 0.219	•••	
352	17 Leonis €	+ 3.4214	- 0.0180	- 0.004	+ 16:373	+ 0.282	+ 0.01	1368
353	29 Ursæ Majoris v	+ 4.3610	- 0.0821	- 0.039	+ 16.543	+ 0.353	+ 0.15	1371
354	30 Ursæ Majoris φ	+ 4.1269	- 0.0634	- 0.000	+ 16.616	+ 0.331	- 0.03	1375
355	39 Hydræ v¹	+ 2.8840	+ 0.0012	- 0.001	+ 16.704	+ 0.226	+ 0.02	1388
						1 0.000		
356	R. P. L. 70	+10.6001	- 1.5473		+ 16.856	+ 0.830		""
357	$\eta$ Antlize	+ 2.5763	+ 0.0082		+ 17.083	+ 0.190	1 0:01	1398
358	29 Leonis $\pi$	+ 3 <sup>-</sup> 1785	- 0.0080	- 0.004	+ 17:088	+ 0.236	+ 0.01	1401
359	21 Leonis Minoris	+ 3.5542	- 0.0285	+ 0.004	+17.378	+ 0.252	- 0.02	1407
360	15 Sexantis	+ 3.0749	- 0.0038	- 0.003	+ 17:441	+ 0.215	0.02	1407
361	32 Leonis a	-+ 3·219 <b>1</b>	- 0.0103	- 0.018	+ 17:449	+ 0.225	- 0.02	1406
362	Rumker 193	+ 1.9133	+ 0.0002		+ 17.503	+ 0.133		<b> </b>
363	Taylor 4522	+ 2.2678	+ 0.0122		+ 17.555	+ 0.152		
364	41 Hydrω λ	+ 2.9381	+ 0.0012	- 0.015	+ 17.567	+ 0.199	+ 0.07	1412
365	Name of the same	+ 2.3116	+ 0.0131		+ 17.735	+ 0.150		
303	Taylor 4559	7- 20110	00101	•••				1 1
360	32 Ursæ Majoris	+ 4.4503	- 0.1154	- 0.016	+ 17.754	+ 0.295	+ 0.01	1415
367	33 Ursw Majoris λ	+ 3.6599	- 0.0386	- 0.017	+ 17.777	+ 0.240	+ 0.06	1421
368	36 Leonis \$	+ 3.3477	- 0.0175	0.000	+ 17.785	+ 0.218	- 0.03	1425
369	Lacaille 4233	+ 1.7013	+ 0.0035		+ 17.790	+ 0.107	•••	
370	R. P. L. 72	+ 9.8518	- 1.6133	- 0.096	+ 17.854	+ 0.646	- 0.04	1399
					1.75.000	+ 0.123	- 0.03	Stone
371	q Carina		+ 0.0112	- 0.014	+ 17.909	+ 0.123 + 0.208	+0.14	1432
372	41 Leonis γ <sup>1</sup>	+ 3.2963	- 0.0148	+ 0.021	+ 17.917	+ 0.137	+ 0.04	Stone
373	Taylor 4616	+ 2.2460	+ 0.0141	- 0.013	+ 17.987	1 '		1
374	Radcliffe 2485		- 0.1175		+ 17.998	+ 0.276	+ 0.02	Stone
375	Taylor 4634	+ 2.2246	+ 0.0146	- 0.013	+ 18.039	+ 0.134	7000	ыодо
376	Lacaille 4270	+ 2.3487	+ 0.0147		+ 18:041	+ 0.142		
377		0.505.	+ 0.0128	- 0.006	+ 18.068	+ 0.155	- 0.03	Stone
378			+ 0.0088	- 0.004	+ 18.113	+ 0.165	- 0.10	Stone
378		+ 3.4633	- 0.0266		+ 18.135	+ 0.207	+ 0.05	1445
380	1	+ 34033 + 1.7782	+ 0.0072		+ 18.151	+ 0.102		
900	Lacamo Tato	1,702	, , , ,	"				
381	31 Leonis Minoris 3	+ 3.4998	- 0.0297	- 0.011	+ 18.205	+ 0.206	+ 0.08	1448
382	α Antliæ	. + 2·7450	+ 0.0097	- 0.010	+ 18.233	+ 0.159	+ 0.03	Stone
383	36 Ursæ Majoris	. 0.0007	- 0.0671	- 0.024	+ 18.278	+ 0.227	+ 0.04	1454
384	Taylor 4694	. + 2.2250	+ 0.0163		+ 18.280	+ 0.126	+ 0.03	Stone
385	-	1 0.1000	+ 0.0161	+ 0.003	+ 18.300	+ 0.123	+ 0.03	Stone

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Rigl	Mear it Asc	n sension.	Pola	Mean r Dis	i tance.	Observations.	Fraction of Year.
000	B.11 0004				h.	m.	<b>s.</b>	•	,	,,		
386	Brisbane 3024		5.0	2	10	23	34.38	155	4	57.7	2	0.33
387	Taylor 4700	•••	5.9	1	10	23	50.98	119	2	24.2	1	0.39
388	δ Antliæ	}	5.8	1	10	23	58.76	119	58	20.4	1	0.22
389	Radcliffe 2510	}	5.1	3	10	26	6.38	48	56	49.2	3	0.36
390	47 Leonis ρ		4.0		10	26	23.16	80	3	56.0	6	0.26
391	34 Leonis Minoris		5.2		10	26	32.23	54	22	58:4	3	0.36
392	Lacaille 4357		5.8	1	10	27	15.24	161	21	59.0	1	0.24
393	37 Ursæ Majoris		5.2		10	27	17:44	32	17	20.6		0.33
394	Taylor 4773		7.1	5	10	31	10.24	147	35	33.7	5	0.27
395	t <sup>1</sup> Carinæ		5.4	5	10	31	46.27	148	55	50:3	5	0.31
396	37 Leonis Minoris		4.8		10	31	51.00	57	23	23.9	.4	0.33
397	p Velorum		5.1	5	10	32	10.65	137	35	32.3	5	0.25
398	φ³ Hydræ		5.2		10	32	38.13	106	14	30.0	2	0.32
399	38 Ursæ Majoris		5.0	1	10	33	36.07	23	38	41.4	1	0.33
400	t² Carinæ		5.0	4	10	34	6.55	148	32	53.7	4	0.33
401			9.0	1	10	35	04.47	1.00				
402	Taylor 4833		5.2	5	10	37	34.41	149	9	57.6	] ]	0.34
403	Taylor 4844		5.4	5	10	38	54.37	153	49	42.1	5	0.31
404	42 Leonis Minoris		5.4		10	39	53.78	149	55	35.5	5	0.50
405	Taylor 4873		5.2	5	10	42	4·63 2·31	58 146	40 6	33·1 51·9	5 5	0.29
406	53 Leonis ?		<b>.</b> .			-		1.20	U	919	"	0.28
407	46 Leonis Minoris	•••	5.3	•••	10	42	50.60	78	48	32.5	18	0.34
408	45 Ursæ Majoris ω	•••	3.9	1	10	46	29.07	55	7	39.2	5	0.26
409	13 Wadam	•••	5.0	5	10	46	56.93	46	()	37.8	5	0.33
410	a Corino	•••	5.2		10	47	31.42	109	28	54.9	5	0.29
		•••	5.0	5	10	48	32.22	148	12	19-7	5	0.32
411	54 Leonis	•••	4.3		10	49	0.39	64	35	58.8	-	0.61
412	ı Antlize	••.	5.2	5	10	51	2.12	126	28		5	0.31
413	60 Leonis b		4.5	1	10	55	49.02	69	20 9	54·3 57·3	5	0.27
414	63 Leonis x	•••	4.7		10	58	43.36	82	0		5	0.25
415	R. P. L. 79	•••	7.7		10	59	3.84	1	41	15·3 52·6	14	0·32 0·82
416	χ¹ Hydræ		5.2		10	ξO				~~ V		0 02
417	χ² Hydræ		5.6		11	59	27.23	116	38	6-4	5	0.26
418	Taylor 5054		5.1	3	11	0	2.74	116	37	43.2	5	0.27
419	52 Ursæ Majoris ψ		3.1	1	11	1	18.73	148	0	56.2	3	0.30
<del>1</del> 20	Taylor 5068		5.0	5		2	47.98	44	50	$22 \cdot 3$	5	0.34
	1		- 0	1	11	2	49.79	117	25	10.2	5	0.34

ber.	Star.	In Ri	ght Ascensi	on.	In P	olar Distanc	e.	ority.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	s	s	,	"	"	
386	Brisbane 3024	+ 1.8968	+ 0.0113		+ 18:305	+ 0.105		
387	Taylor 4700	+ 2.7699	+ 0.0093	•••	+ 18:315	+ 0.157		
388	δ Antliæ	+ 2.7585	+ 0.0097		+ 18.320	+ 0.156	• •••	
389	Radcliffe 2510	+ 3.53\$1	- 0.0342		+18.394	+ 0.197		
390	47 Leonis ρ	+ 3.1653	- 0.0080	- 0.001	+ 18.404	+ 0.176	- 0.01	1467
391	34 Leonis Minoris	+ 3.4521	- 0.0276	- 0.006	+ 18:409	+ 0.192	- 0.02	1465
392	Lacaille 4357	+ 1.5111	- 0.0034		+18.434	+ 0.079		
393	37 Ursæ Majoris	+ 3.9049	- 0.0703	+ 0.002	+ 18.436	+ 0.217	- 0.04	1464
394	Taylor 4773	+ 2.2761	+ 0.0187	•••	+ 18.567	+ 0.118		
395	$t^1$ Carina	+ 2.2390	+ 0.0187	•••	+ 18.586	+ 0.115		
396	37 Leonis Minoris	+ 3:3932	- 0.0242	- 0.001	+ 18.589	+ 0.178	- 0.03	1475
397	p Velorum	+ 2.5250	+ 0.0171	- 0.012	+ 18.600	+ 0.130	+ 0.03	Stone
398	φ <sup>3</sup> Hydrae	+ 2.9273	+ 0.0048	- 0.010	+ 18.615	-+ 0.151	- 0.05	1479
309	38 Ursæ Majoris	+ 4.1963	- 0.1130	- 0.029	+ 18.646	+ 0.218	+ 0.08	1476
400	t <sup>2</sup> Carina		- <del> -</del> 0.0195	0.000	+ 18.662	+ 0.113	- 0 10	Stone
401		+ 2.2658	+ 0.0199		+ 18.708	+ 0.112		
402	Taylor 4833		+ 0.0196	- 0.002	+ 18.781	+ 0.100	+ 0.02	Stone
403	Taylor 4844	+ 2.2721	+ 0.0211	l	+18.811	-i- 0·107		
404	42 Leonis Minoris	+ 3:3536	- 0.0227	- 0.004	+ 18.817	+ 0.162	+ 0.02	1490
405	Taylor 4873	+ 2.4081	+ 0.0218		+ 18:905	+ 0.109		
406	53 Leonis <i>l</i>	+ 3:1597	  - 0.0080	- 0.002	+18.928	+ 0.145	+ 0.02	2500
407	46 Leonis Minoris	+ 3.3660	- 0.0257	+ 0.002	+19.031	+ 0.147	+ 0.25	1509
408	45 Ursa Majoris ω	1 '	_ 0.0319	+0.002	+19.044	+ 0.151	+ 0.03	1510
409	b³ Hydra	+ 2.9252	+ 0.0073	- 0.004	+19.000	+ 0.125	+ 0.05	1507
410	u Carina	+ 2.4106	-1 0.0244	0.000	+19.087	+ 0.100	+ 0.02	Stone
411	54 Leonis	+ 3:2658	- 0.0172	- 0.007	+ 19.100	+ 0.137	- 0·01	1515
412	ι Antlia	+ 2.7793	+ 0.0154	+ 0.000	+19.153	+ 0.112	+ 0.13	Stone
413	60 Leonis b	+ 3.2129	- 0.0136	- 0.003	+ 19.273	+ 0.122	- 0.02	1529
414	63 Leonis $\chi$	+ 3.1218	- 0.0056	- 0.026	+19.341	+ 0.113	+ 0.02	1535
415	R. P. L. 79	+ 14:9223	- 8:4792		+ 19.350	+ 0.564		
416	χ¹ Hydra	+ 2.8971	+ 0·0115	- 0·017	+19.358	+ 0.103	+ 0.01	1536
417	χ² Hydrae	+ 2.8988	+ 0.0115	+ 0.001	+19.372	+ 0.102	+ 0.01	1538
418	Taylor 5054	+ 2.5300	+ 0.0287		+ 19.401	+ 0.086		
419	52 Ursæ Majoris ψ	+ 3.4043	- 0.0368	- 0.007	+19.432	+ 0.115	0·0-4	 1542
420	Taylor 5068	+ 2.9011	+ 0.0122	- 0.006	+19.434	+ 0.097	- 0·02	Stone
			1 00122	3 000	1 20 202	- 0001	- 0 02	~ 1000

Mean Positions of Stars for 1878, January 1st.

<del></del>		<del></del> ;-										
Number.	Star.		Magnitude.	Estimations.	Right	Mean Asc	ı ension.	Polar	Mean Dista	ance.	Observations.	Fraction of Year.
					h.	m.	s.	o	,	"		
421	w Carinæ		5.4	5	11	3	22.97	148	18	51.3	5	0.27
422	Taylor 5077		5.2	5	11	4	1.59	121	42	18.5	5	0.34
423	68 Leonis δ	•••	2.8		11	7	37:11	68	48	27.5	6	0.29
424	72 Leonis	• •••	4 <sup>.</sup> 9		11	8	42.89	66	14	23.1	5	0.29
425	53 Ursæ Majoris ξ	•	4.8		11	11	40.20	57	47	4.2	5	0.33
426	54 Ursæ Majoris ν		3.8		11	11	53.02	56	14	24.3	5	0.34
427	55 Ursæ Majoris		4.8	ļ	11	12	28.83	51	8	42.0	5	0.36
428	12 Crateris δ		3.9		11	13	14:46	104	7	6.0	20	0.30
429	Taylor 5193		7.6	5	11	16	46.51	147	42	55.9	5	0.26
430	Taylor 5195		5.2	6	11	17	18.18	125	29	43.7	6	0.36
431	Taylor 5198		<b>7</b> ·8	2	11	17	18:46	147	38	46.3	2	0.32
432	14 Crateris $\epsilon$		5.0		11	18	26.97	100	11	23.9	6	0.34
433	Radcliffe 2679		5.0	5	11	19	3.48	33	28	52.1	5	0.32
434	1 Draconis λ		4.1		11	24	8.70	19	59	45.6	5	0.50
435	17 Hydræ—2nd		5.0		11	26	13.75	118	35	34·0	5	0.31
436	Taylor 5282		5.5	5	11	26	52·33	120	24	50.7	5	0.38
437	91 Leonis v		4.5		11	30	42.09	90	8	59.9	16	0.32
438		}	8.0	3	11	31	50.27	150	48	35·3	3	0.39
439	24 Crateris		5.6		11	32	28.26	102	31	48.7	5	0.38
440	o Hydræ		5.2	3	11	34	9.29	124	4	5.7	3	0.35
441	63 Ursæ Majoris $\chi$		3.9		11	39	25,00	47	00	05.5		0.00
442	35	•••	4.7	4	11	39	35·92	41	32	35.7	4	0.36
443	Taylor 5402	•••	5·5	3	11	40	51·50 37·20	156	3	9.7	4 3	0.39
444	93 Leonis	•••	4·6	-	11	41	37.20 41.39	150	30 6	0·8 10·9	3	0.37
445	94 Leonis & (Deneb)	•••	2.2		11	42	50.22	74	44	46·5	6	0.40
140	EE Contouri											
446	55 Centauri		5.2	5	11	45	2.89	134	29	40.9	5	0.36
447	Taylor 5437	•••	5.2	3	11	46	8.52	146	18	36.4	3	0.35
448	c Hydræ 31 Crateris	•••	5.7	5	11	47	17.53	124	23	12.7	5	0.38
449	Ch Court	•••	5.5	5	11	54		108	58		5	0.34
4-50	67 Centauri	•••	5.6	5	11	57	20.80	131	45	3.3	5	0.38
451	θ <sup>2</sup> Crucis		5.4	4	11	58	3.01	152	29	11.9	4	0.40
452	R. P. L. 89		6.3		11	58	36.33	3	44	12.6	5	0.59
453	η Crucis		4.5	5	12	0	<b>31</b> ·89	153	56	0.6	5	0.35
454	2 Corvi €	•••	3.1		12	3	<b>51</b> ·10	111	56	27.0	8	0.39
455	Radcliffe 2811	•••	5.6	5	12	6	28:31	11	42	19.4	5	0.41
1			J	J	1						1	1

452.—Groombridge 1850.

Observed with the Madras Meridian Circle in that Year.

er.		In Rig	tht Ascensic	on.	In P	olar Distanc	е.	rity.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
		8	s	8	"	"	,,	
421	x Carinæ	+ 2.5426	+ 0.0297		+ 19.445	+ 0.083		
422	Taylor 5077	+ 2.8724	+ 0.0145		+ 19.459	+ 0.094		•••
423	68 Leonis δ	+ 3.1897	- 0.0132	+ 0.010	+ 19.533	+ 0.098	+ 0.12	1546
424	72 Leonis	+ 3.2028	- 0.0150	- 0.004	+ 19.555	+ 0.096	- 0.00	1549
425	53 Ursæ Majoris ξ	+ 3.2486	- 0.0216	- 0.037	+ 19.610	+ 0.093	+ 0.57	1553
426	54 Ursæ Majoris v	+ 3.2585	- 0.0227	+ 0.001	+ 19:615	+ 0.091	- 0.05	1554
427	55 Ursæ Majoris	+ 3.2940	- 0.0278	- 0.006	+19.625	+ 0.091	+ 0.07	1555
428	12 Crateris δ	+ 3.0041	+ 0.0064	- 0.011	+ 19.638	+ 0.081	- 0·21	1557
429	Taylor 5193	+ 2.6755	+ 0.0341		+19.698	+ 0.065		
430	Taylor 5195	1 0,0000	+ 0.0181		+ 19.707	+ 0.072		
431	Taylor 5198	+ 2.6814	+ 0.0342		÷ 19·709	+ 0.065	•••	
432	14 Crateris €	. + 3.0289	+ 0.0047	- 0.004	+19.725	+ 0.072	- 0.02	1563
433	Radeliffe 2679	. + 3.4314	- 0.0556	•••	+ 19.736	+ 0.088		
434	1 Draconis λ	+ 3.6444	- 0.1119	- 0.009	+ 19.809	+ 0.074	+ 0.03	1572
435	17 Hydræ—2nd	. + 2.9652	+ 0.0149	- 0.003	+ 19:837	+ 0.055	- 0.17	Stone
436	Taylor 5282	+ 2.9592	+ 0.0161		+ 19:844	+ 0.054		
437	91 Loonis v	. + 3.0718	+ 0.0003	- 0.002	+ 19.890	+ 0.049	- 0.02	1586
438		. + 2.7789	+ 0.0432		+ 19.903	+ 0.041		
439	24 Crateris	+ 3.0366	+ 0.0068	+0.004	+ 19.910	+ 0.044	+ 0.13	1591
440	o Hydræ	. + 2.9705	+ 0.0192	- 0.002	+ 19.927	+ 0.040	- 0.08	1594
441	G3 Ursæ Majoris $\chi$	. + 3.2064	- 0.0358	- 0.015	+ 19.975	+ 0.033	- 0.03	1600
442	λ Musca	. + 2.8081	+ 0.0562		+ 19.977	+ 0.027	•••	
443	Taylor 5402	+ 2.8727	+ 0.0466	<b>;</b>	+ 19.983	+ 0.027		
444	93 Leonis	. + 3.1130	- 0.0108	- 0.012	+ 19.990	+ 0.027	- 0.01	160
445	$94$ Leonis $\beta$	+ 3.0996	- 0.0074	- 0.036	+ 19.998	+ 0.025	+ 0.10	160
446	5 55 Centauri	+ 2.9862	+ 0.0135	5	+ 20.012	+ 0.020		
447	Taylor 5437	+ 2.9511	+ 0.042	3	+ 20.018	+ 0.017		
448	-	+ 3.0215	+ 0.0208	3	+ 20.023	+ 0.016		
449		+ 3.0617	+ 0.012	- 0.003	+ 20.048	+ 0.003	- 0.03	161
450		+ 3.0584	+ 0.028	ι	+ 20.053	- 0.004		
451	0º Crucis	+ 3.0504	+ 0.058		+ 20.053	- 0.002	+ 0.02	Stor
452		+ 3.1965	- 0·485	2	+ 20.054	- 0.006		
453		+ 3.0786	+ 0.0630	o	+ 20.051	- 0.010		
454		+ 3.0813		2 - 0.006	+ 20.051	- 0.016	- 0.02	162
458		+ 2.8900		2	+ 20.045	- 0.055		

Mean Positions of Stars for 1878, January 1st.

457 6 458 2	Taylor 5607—2nd		Magnitude	Estimations.	Righ	Mea t Asc	n ension.	Pola	Mean Dist		Observations	Fraction Year.
457 6 458 2	Taylor 5607—2nd				ħ.	m.	s.	٥	,	"		
458 2			5.2	5	12	7	40.30	135	2	42.8	5	0.32
1 1	6 Comæ		5.1		12	9	48.51	74	25	18.8	5	0.37
459	2 Canum Venaticorum		6.0		12	10	0.70	48	39	37.3	5	0.42
	7 Comæ		5.2		12	10	10.11	65	22	33.8	2	0.41
<b>4</b> 60 7	l Canum Venaticorum		5·1		12	10	22.15	56	15	23.4	3	0.42
461	ÇCrucis		<b>5</b> ·O	2	12	11	50.28	153	19	30.3	2	0.36
462	15 Virginis $\eta$		4.0		12	13	39.85	89	59	17.8	4	0.36
463	5 Corvi ζ		<b>5</b> ·5		12	14	14.70	111	32	13 <sup>.</sup> 5	5	0.38
464	R.P.L. 93		6.7		12	14	19.31	1	37	26.4	1	0.86
465	11 Comæ		4.9		12	14	33.08	71	31	<b>5</b> 7·8	1	0.37
466	12 Comæ		4.8		12	16	22:33	63	28	36.5	2	0.34
467	6 Corvi		5.9		12	17	0.31	114	9	47.0	1	0.37
468	13 Comæ		5.1	1	12	18	11.08	63	13	27.8	3	0.39
469	14 Comæ		5·1	\	12	20	17.91	62	3	19.0	4	0.40
470	15 Comæ γ		4.7		12	20	51.31	61	3	10.1	3	0.36
471	16 Comæ		5·1	\	12	20	53.35	62	29	53.6	2	0.38
472	$\sigma$ Centauri		4.5	1	12	21	26.71	139	33	14.9	1	0.36
473	u Centauri		5.2	4	12	21	53.43	128	21	56.3	4	0.40
474	8 Corvi η		4.4		12	25	46.90	105	31	11.5	5	0.39
475	8 Canum Venaticorui	n <b>ß</b> .	4.3		12	27	56.70	47	58	44.9	5	0:34
476	9 Corvi β	•••	2.8	\	12	27	58.91	112	43	16.3	2	0.44
477	5 Draconis κ		3.8		12	28	16.55	19	32	18.0	3	0.38
478	23 Comæ		4.9	1	12	28	46.57	66	41	55.0	3	0.40
479	24 Comæ-2nd		5.0		12	29	0.48	70	57	2.7	5	0.40
480	au Centauri		5.3	1	12	31	2.10	137	52	9.5	1	0.41
481	d Hydræ		5.2		12	31	14.33	116	27	50·1	4	0.38
482	l Centauri		0	5	12			129	18	55·4	5	0.39
483	30 Virginis ρ				12	38		79	5	28.9	5	0.39
484	Taylor 5839			3	12	35		138	8	32.8	3	0.40
485	Crucis		5.2	3	12	38		150	18	40.4	3	0.36
486	27 Comæ		5.3	\	12	4.0	32.99	72	45	20.2	4	0.37
487	Taylor 5906			5	12			129			5	0.39
488	Taylor 5918	•••		4	12			138			4	0.39
489	κ Crucis		1	3	12			149			3	0.35
490	n Centauri	•••	5.4	3	12	2 4		129			3	0.40

464.—Groombridge 1884.

Observed with the Madras Meridian Circle in that Year.

ber.	Star.		In R	ight Ascensi	on.	In Pol	ar Distance.		Authority.
Number.	es lister •		Annual Precession.	Secular Variation.	Proper Motion,	Annual Precession.	Secular Variation.	Proper Motion.	Autho
		١	8	s	2	. "	"	"	
456	Taylor 5607—2nd		+ 3.1171	+ 0.0331		+ 20.043	- 0.024	***	•••
457	6 Comæ		+ 3.0563	- 0.0058	- 0.007	+ 20.035	- 0.028	+0.01	1639
458	2 Canum Venat.		+ 3.0212	- 0.0140	+ 0.003	+ 20.035	- 0.027	+0.03	1640
459	7 Coma		+ 3.0451	- 0.0110	- 0.004	+ 20.035	- 0.028	0.00	1641
460	l Canum Venat.		+ 3.0319	- 0.0170	•••	+ 20.034	- 0.028		
461	ζ Crucis		+ 3.2096	+ 0.0670	•••	+ 20.028	- 0.033	•••	
462	15 Virginis η		+ 3.0723	+ 0.0027	- 0.006	+ 20.018	- 0.035	+0.02	1647
463	5 Corvi (	•••	+ 3.1050	+ 0.0147	- 0.009	+ 20.016	- 0.037	+ 0.04	1653
464	R. P. L. 93		+ 0.1274	+ 0.9684	- 0.090	+ 20.015	- 0.010	- 0.08	1672
465	11 Coma	•••	+ 3.0439	- 0.0071	- 0.010	+ 20.011	- 0.037	- 0.09	1654
466	12 Comæ		+ 3.0246	- 0.0117	- 0.002	+ 20.003	- 0.040	- 0.01	1658
467	6 Corvi		+ 3.1167	+ 0.0169	- 0.003	+ 19:999	- 0.042	+ 0.02	1659
468	13 Coma		+ 3.0188	- 0.0116	- 0.002	+ 19.991	- 0.044	+ 0.02	1661
469	14 Comw		+ 3.0095	- 0.0121	- 0.003	+ 19.976	- 0.047	+ 0.01	1665
470	15 Comæ γ		+ 3.0052	- 0.0127	- 0.008	+ 19.971	- 0.049	+ 0.09	1660
471	16 Comæ	•••	+ 3.0089	- 0.0121	- 0.002	+ 19.971	- 0.049	+ 0.00	1667
472	σ Centauri	•••	+ 3.2188	+0.0412		+ 19.966	- 0.052		
473	u Contauri	•••	+ 3.1731	+ 0.0282		+ 19.962	- 0.053	•••	
474	8 Corvi η		+ 3.1139	+ 0.0117	- 0.033	+ 19.927	- 0.060	+ 0.05	1681
475	8 Canum Venat. 8		+ 2.9258	- 0.0207	- 0.065	+ 19.905	- 0.061	- 0.29	1686
476	9 Corvi β		+ 3.1404	+ 0.0164	- 0.003	+19.905	- 0.064	+ 0.02	1685
477	5 Draconis κ		+ 2.6088	- 0.0547	- 0.016	+ 19:902	- 0.056	+ 0.00	1689
478	23 Comæ		+ 3.0000	- 0.0087		+ 19.896	- 0.063		
479	24 Comm-2nd		+ 3.0140	- 0.0064	- 0.001	+ 19.894	- 0.064	- 0.03	1688
480	τ Centauri		+ 3.2719	+ 0.0404		+ 19.871	- 0.072		
481	d Hydra		+ 3.1627	+ 0.0193		+ 19:869	- 0.071		
482	_		+ 3.2307	+ 0.0303		+ 19.844	- 0.077		
483	30 Virginis ρ		+ 3.0323	- 0.0016	+ 0.003	+ 19.811	- 0.077	+ 0.09	1701
484	Taylor 5839		+ 3.3046	+ 0.0417		+ 19.809	- 0.084		
485	"		. + 3.4641	+ 0.0685		+ 19.772	- 0.092		
486	27 Comæ		+ 2.0992	- 0.0045		+ 19741	- 0.085		
487			1 0,00.10	+ 0.0312	- 0.007	+ 19.665	- 0.102	- 0.03	Ston
488		٠.	1 0 0 0 0 0	+ 0.0435		+ 19.648	- 0.106		
488	1 -		1 2,5000	+ 0.0693		+ 19.642	- 0.112		
490			1 0.0050	+.0.0320	A	+ 19.640	- 0.105	+ 0.08	

Mean Positions of Stars for 1878, January 1st.

Number.	Star.			Magnitude.	Estimations.	Right	Mea Asc	n ension.	Polar	Mean r Dist		Observations.	Fraction of Year.
					1	h.	m.	s. ·	۰	,	"	1	
491	35 Comæ	•••		5·1		12	47	17.46	68	5	31.0	3	0.43
492	o Centauri—1st	•••		5·1	2	12	47	26.00	146	30	<b>52·4</b>	2	0.40
493	R. P. L. 98	•••		6.6		12	48	6.68	5	55	4.4	2	0.36
494	R. P. L. 99	•••		5.6		12	48	14.78	5	55	26.2	3	0.75
495	Taylor 5944	•••		5.6	2	12	48	46.50	146	10	26.6	2	0.43
496	12 Canum Vena	ticoru	m a.	3.0		12	50	19.02	51	1	20.0	2	0.44
497	36 Comæ			5.0		12	52	53·31	71	<b>5</b> 5	57.2	5	0.38
498	37 Comæ			5.1		12	54	26.21	58	33	22.6	4	0.38
499	78 Ursæ Majoris	•••		4.8		12	55	29.20	32	58	31.1	1	0.37
500	ξ¹ Centauri	• • • •		5.7	2	12	56	30.12	138	<b>52</b>	14.2	2	0.39
501	Taylor 6013			5.5	5	12	59	12.75	137	48	30.1	5	0.41
502	ξ² Centauri	• • • •		5.0	1	12	59	47.72	139	15	6.3	1	0.39
503	14 Canum Venat	icoru	m	5.3		13	0	2.07	53	32	50.8	5	0.41
504	θ Muscæ			5.9	1	13	0	15.69	154	<b>3</b> 9	8.2	1	0.39
505	39 Comæ	•••	•••	6.1		13	0	24.33	68	11	29.2	1	0.39
506	41 Comæ	•••		4.9		13	1	19.48	61	43	11.9	2	0.40
507	49 Virginis g			5.9		13	1	30.45	100	5	13.8	1	0.35
508	B. F. 1805			5.2	1	13	2	10.92	98	19	48.2	1	0.37
509	45 Hydræ ψ			5.1		13	2	29.10	112	27	53.6	4	0.43
510	51 Virginis θ			4.4		13	3	38.05	94	53	12.3	.5	0.40
511	Taylor 6056			<b>5</b> ·0	1	13	4	25.22	132	43	5.3	1	0.41
512	m Centauri			5.2	2	13	5	15.01	127	9	19.3	2	0.40
513	43 Comæ 8			4.4		13	6	10.92	61	30	10.1	3	0.49
514	Taylor 6077			5.2	1	13	6	42.67	148	27	3.4	1	0.46
515	m Canum Venat	icoru	m	5.0		13	8	10.70	49	12	0.9	3	0.40
516	57 Virginis		•••	5.4		. 13	9	22.95	109	17	35.6	2	0.41
517	61 Virginis	•••		4.8		13	12	1.28	107	. 37	53.7	3	0.41
518	20 Canum Vena	ticoru	ım	4.7		13	12	4.37	48	47	3.8	1	0.39
519	21 Canum Vena	ticoru	ım	5.2		13	13	3.88	39	40	31· <del>1</del>	*	0.39
520	67 Virginis a (S	pica)		1.2		13	18	45.93	100	31	25.8	4	0.44
521	68 Virginis i	•••	•	5.2		. 13	20	16.53	102	4	19:3	5	0.42
522	69 Virginis	•••		4.8		13	20	56 <sup>.</sup> 75	105	20	24.0	5	0.41
523	d Centauri			4.9	5	13	23	58.47	128	46	35.4	5	0.39
524	Taylor 6235			8.3	3	13	24	7.53	70	18	39.4	3	0.39
525	79 Virginis (			3.5		13	28	28.70	89	58	15.5	4	0.41

[3.86]

31.3

Number.	Star.		In Ri	ght Ascensi	on.	In 1	Polar Distan	œ.	rity.
Naı			Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
			s	s	s	"	"	,,	
491	35 Comm		+ 2.9619	- 0.0129	- 0.007	+ 19.629	- 0.096	+ 0.02	1719
492	o Centauri—1st		+ 3.4875	+ 0.0604		+ 19.627	- 0.112		
493	R. P. L. 98		+ 0.3844	+ 0.2158	- 0.014	+ 19.614	- 0.020	- 0.02	1730
494	R. P. L. 99		+ 0.3799	+ 0.2177	- 0.020	+ 19:611	- 0.024	- 0.02	1731
495	Taylor 5944	•••	+ 3.4936	+ 0.0598		+ 19.603	- 0.112		
496	12 Canum Venat.	α	+ 2.8366	- 0.0152	- 0.022	+ 19.573	- 0.098	- 0.07	1725
497	36 Coma		+ 2.9725	- 0.0041	- 0.003	+ 19.523	- 0.107	- 0.05	1728
498	37 Coma		+ 2.8799	- 0.0106	- 0.003	+ 19:491	- 0.106	+ 0.00	1733
499	78 Ursæ Majoris		+ 2.5782	- 0.0252	+ 0.007	+ 19.469	- 0.098	+ 0.02	1736
500	ξ¹ Centauri		+ 3.4450	+ 0.0460	- 0.002	+ 19:448	- 0.130	+ 0.06	Main
501	Taylor 6013		+ 3.4400	+ 0.0445		+ 19:389	- 0.136		
502	ξº Centauri		+ 3.4725	+ 0.0471	- 0.016	+ 19.376	- 0.138	+ 0.02	Stone
503	14 Canum Venat.		+ 2.8165	- 0.0125	- 0.003	+ 19.371	- 0.114	- 0.02	1739
504	0 Musem		+ 3.80 57	+ 0.0947		+ 19.363	- 0.152		
505	39 Come		+ 2.9328	- 0.0052	- 0.007	+ 19.362	- 0.119	+ 0.02	1740
506	41 Comto		+ 2.8821	- 0.0083	4- 0·000	+ 19:339	- 0.119	+ 0.08	1743
507	49 Virginis g		+ 3.1353	+ 0.0102	- 0.000	+ 19:336	- 0.129	- 0.01	1742
508	B. F. 1805		+ 3.1247	+ 0.0086		+ 19.321	- 0.130	,	
509	45 Hydræψ		+ 3.2211	+ 0.0182	- 0.004	+ 19.313	- 0.134	+ 0.04	1744
510	51 Virginis θ		+ 3.1036	+ 0.0078	- 0.004	+ 19.286	- 0.132	+ 0.04	1747
511	Taylor 6056		+ 3.4147	+ 0.0376	<b>— 0.020</b>	+ 19.267	- 0.145	- 0.04	Stone
512	m Centauri		+ 3:3568	+ 0.0310		+ 19:247	- 0.145		
513	43 Coma β		+ 2.8656	- 0.0079	- 0.061	+19.224	- 0.127	- 0.90	1755
514	Taylor 6077		+ 3:6971	+ 0.0706		+ 19:211	- 0.163		
515	m Canum Venat.	•••	+ 2.7340	- 0.0137		+ 19:174	- 0.125		
516	57 Virginis		+ 3.2118	+ 0.0163	+ 0.020	- - 19· <b>143</b>	- 0.147	+ 0.10	1758
517	61 Virginis		+ 3.2036	+ 0.0154	- 0.076	+ 19.072	- 0.152	+ 1.04	1763
518	20 Canum Venat.		+ 2.7100	- 0.0132	- 0.013	+ 19.071	- 0.130	- 0.02	1765
519	21 Canum Venat.		+ 2.5671	- 0.0170	- 0.002	+ 19:044	- 0.125	+ 0.00	1767
520	67 Virginis a		+ 3.1559	+ 0.0116	- 0.004	+ 18:381	- 0.163	+ 0.02	1774
521	68 Virginis i		+ 3.1704	+ 0.0125	- 0·012	+ 18.836	- 0.166	+ 0.02	1775
522	69 Virginis		+ 3.1991	+ 0.0143	- 0.011	+ 18.816	- 0.169	- 0.03	1778
523	d Centauri		+ 3.4570	+ 0.0340		+ 18.724	- 0.188		
524	Taylor 6235		+ 2.9005	- 0.0025		+ 18.718	- 0.160		(
525	79 Virginis ζ		+ 3.0720	+ 0.0064	- 0.021	+ 18.579	- 0.176	- 0.06	1789
					1	<u> </u>			1

Mean Positions of Stars for 1878, January 1st.

Number.	Star.	Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Pola	Mear r Dist		Observations.	Fraction of Year.
				h.	m.	8.		,	"		
526	24 Canum Venaticorum	4.8		13	29	27.96	40	21	33.7	5	0.39
527	25 Canum Venaticorum	5.0	·	13	32	2.57	53	5	1.9	5	0.42
528	Lacaille 5632	5.8	5	13	33	56.56	143	56	26.4	5	0.42
529	83 Ursæ Majoris	4.8		13	36	6.64	34	41	58.7	5	0.39
<b>53</b> 0	1 Centauri i	5-1	5	13	<b>3</b> 8	45.27	122	25	33.0	5	0.40
531	Taylor 6376	5.1	. 2	13	38	56.54	140	49	9.0	5	0.48
532		4.5		13	41	27.81	71	56	3.8	5	0.40
533	2 Centauri g	5·2	5	13	42	22.80	123	50	26.2	5	0.41
534	5 Bootis υ	4.1		13	43	35.40	73	35	45.7	3	0.49
535	Taylor 6424—2nd	5.5	1	13	44	13.74	142	12	18.4	2	0.43
536	3 Centauri k	4.6	2	13	44	47.27	122	23	17:2	2	0.43
537	4 Centauri h	5.3	3	13	46	11.44	121	19	27.5	3	0.41
538	Rumker 360	7.9	2	13	46	12.29	150	43	56.1	2	0.38
539	10 Draconis i	4.7	,	13	47	52.02	24	40	23.1	3	0.41
540	8 Bootis η	2.8	)	13	48	52.52	70	59	24.3	6	0.45
541	G. Z. C. XIII. 3120	7.	7 1	13	50	57.43	149	58	17.5	1	0.21
542	9 Bootis	5	ւ	13	50	59.86	61	54	34.7	5	0.42
543	v¹ Centauri	5	3 4	13	51	9.15	134	12	<b>25·8</b>	5	0.43
544	υ² Centauri	5	2 5	13	<b>54</b>	7.33	135	0	41.0	5	0.41
545	93 Virginis $\tau$	4.	4	13	55	26.29	87	51	50.1	3	0.48
546	h Hydræ	5	5 5	13	55	26.56	116	50	22.0	5	0.40
547	χ Centauri	5	2 .5	13	58	36.25	130	35	38-9	5	0.42
<b>54</b> 8	49 Hydræ π	3.	5	13	59	25.54	116	5	37.4	5	0.40
549	11 Draconis a	3	6	14	1	5.09	25	2	24.2	5	0.45
550	Taylor 6600	5	8 3	14	4	10.87	105	43	26.9	5	0.44
551	50 Hydræ	5	2	14	5	46.71	116	41	9.6	5	0.44
552	Taylor 6616	5	5 1	14	6	28.15	146	30	48.5	1	0.52
553	17 Bootis κ-2nd	4	4	14	9	6.53	37	<b>3</b> 8	18.7	4.	0.47
554	4 Ursæ Minoris	4	9	14	9	21.44	11	52	44.2	2	0.21
555	Radcliffe 3170	5	0   1	14	9	48.18	19	59	39.3	2	0.23
556	16 Bootis a (Arcturus)	0	о	14	10	5.86	70	10	54.6	7	0.45
557	19 Bootis λ	4	3	14	11	44.80	43	21	2.3	2	0.48
558	ψ Centauri	5	0 4	14	13	8.53	127	19	22.3	4	0.48
559	a Centauri	5	1 5	14	15	31.61	128	57	12.3	5	0.46
560	τ¹ Lupi	5	·2 4	14	18	18.80	134	40	5.8	4	0.46

Number.	Star.		In Ri	glıt Ascensi	on.	In 1	Polar Distan	ce.	rity.
Num	~		Annual Procession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
			s	8	s	. "	"	"	
526	24 Canum Venat.		+ 2.4736	- 0.0131	- 0.013	+ 18.546	- 0.145	- 0.01	1791
527	25 Canum Venat.	٠.,	+ 2.6796	- 0.0086	•••	+ 18.458	- 0.161		.,.
528	Lacaille 5632		+ 3.8040	+ 0.0610		+ 18:393	- 0.229	•••	
529	83 Ursio Majoris	•••	+ 2.2861	+ 0.0278	- 0.006	+ 18.315	- 0.216	+ 0.00	1802
530	1 Centauri i	•••	<b>⊣-</b> 3·4269	+ 0.0278	- 0.033	+ 18:222	- 0.216	+ 0.13	Stone
531	Taylor 6376		+ 3.7586	+ 0.0546		+ 18:214	- 0.237		
532	4 Bootis τ		+ 2.8855	- 0.0007	- 0.035	+ 18·120	- 0.188	- 0.04	1810
533	2 Centauri g		+ 3.4595	+ 0.0295	- 0.003	+ 18.086	- 0.227	+ 0.03	Stone
534	5 Bootis υ		+ 2.9003	0.0000	- 0.000	+18.040	- 0.193	0.04	1813
535	Taylor 6424—2nd.		+ 3.8294	+ 0.0583	•••	+ 18.016	- 0.253		
5::6	3 Centauri k		+ 3/4464	+ 0.0280	- 0.002	+ 17:994	- 0.230	+ 0.10	Stone
537	4 Centauri h	•••	+ 3.4359	+ 0.0270	- 0.002	-l- 17·940	- 0.232	+ 0.06	Stone
538	Rumker 360		+ 4:1386	+ 0.0873		+ 17:940	- 0.277		
539	10 Draconis i		+ 1.7525	- 0.0004	- 0.002	+ 17:873	- 0.124	+ 0.01	1823
540	8 Bootis $\eta$	•••	+ 2.8616	- 0.0006	- 0.002	+ 17:833	- 0.199	+ 0.34	1821
541	G. Z. C. XIII. 3120		+ 4:1488	+ 0.0844		+ 17:749	- 0.289		
542	9 Bootis		+ 2.7400	- 0.0037	+ 0.001	+ 17:747	- 0.194	+ 0.06	1826
543	v¹ Centauri		+ 3.6785	+ 0.0428		+ 17.741	- 0.258		
544	υ <sup>u</sup> Centauri		+ 3.7110	+ 0.0442	- 0.006	+ 17:619	- 0.266	+ 0.04	Stone
545	93 Virginis $\tau$		+ 3:0482	+ 0.0004	- 0.001	+ 17:563	- 0.222	+ 0.03	1829
546	h Hydræ		+ 3:3988	+ 0.0233		+ 17:564	- 0.247	•••	
547	χ Centauri		- <del> </del> - 3.6390	+ 0.0377	- 0.011	+ 17:429	- 0.269	- 0.02	Stone
548	49 Hydrae π		+ 3:3982	+ 0.0227	+ 0.002	+17.393	- 0.253	+ 0.17	1832
549	11 Draconis α		+ 1.6297	+ 0.0048	- 0.000	+ 17:320	- 0.127	- 0.03	1836
550	Taylor 6600		+ 3.2664	+ 0.0176		+ 17:181	- 0.253		
551	50 Hydræ		+ 3.4228	+ 0.0232	- 0.002	+ 17:110	- 0.267	+ 0.02	1837
552	Taylor 6616		+ 4:1313	+ 0.0719		+ 17:077	- 0.320		
553	17 Bootis κ−2nd		+ 2:1465	- 0.0049	+ 0.005	+ 16.956	- 0.174	4- 0.04	1849
554	4 Ursm Minoris		- 0.3276	+ 0.1554	- 0.011	+ 16:942	+ 0.010	- 0.02	1859
555	Radeliffe 3170		+ 1.1006	+ 0.0283		+ 16:921	- 0.003	•	
556	16 Bootis α		+ 2.8131	+ 0.000.1	- 0.080	+ 16:908	- 0.227	+ 1.98	1847
557	10.15		+ 2.3022	- 0.0056	0.019	+ 16.829	- 0.194	- 0.15	1852
558	ψ Centauri		+ 3.6316	+ 0.0336		+ 16.765	- 0.297		
559	a Centauri		+ 3.6749	+ 0.0356		+16.648	- 0.306	•••	
560	τ¹ Lupi		+ 3.8223	+ 0.0438	0.004	+ 16.512	- 0.323	+ 0.09	Stone
		ļ				l			

Mean Positions of Stars for 1878, January 1st.

Number.	· Star.			Magnitude.	Estimations.	Right	Mear Asc	ension.	Polar	Mean Dista	ince.	Observations.	Fraction of Year.
				1		h.	m.	s.	٥	,	"		
561	τ <sup>2</sup> Lupi	•••		5.0	2	14	18	20.54	134	49	33.7	4	0.20
562	52 Hydræ	•••		5.0		14	21	1.90	118	56	31.6	2	0.46
563	23 Bootis θ	•••		4.2		14	21	2.45	37	35	5.8	1	0.53
564	••• •••	•••	•••	9-4	5	14	21	40.05	93	<b>5</b> 0	22.5	5	0.43
565	105 Virginis $\phi$	•••	•••	4.9		14	21	54.95	91	40	48.2	3	0.49
566	σ Lupi			5.3	5	14	24	24.40	139	54	52.5	5	0.46
567	Taylor 6786		•••	7.5	1	14	26	24.47	146	1	31.3	1	0.42
568	25 Bootis ρ		•••	3.6		14	26	34.32	59	5	31.6	9	0.46
569	27 Bootis γ			3.1		14	27	9.98	51	9	26.4	4	0.47
570	5 Ursæ Minoris			4.3		14	27	48.04	13	45	40.5	3	0.23
571	28 Bootis σ			4.5		14	29	22.23	59	43	26.5	5	0.49
572	ρ Lupi			5.0	2	14	29	41.32	138	<b>5</b> 3	33.2	2	0.47
573	l Centauri			5.3	5	14	34	23.08	127	16	$7\cdot 2$	5	0.45
574	29 Bootis π		•••	4.6		14	34	59.66	73	3	28.9	5	0.48
575	30 Bootis (			3.8		14	35	19.50	75	44	50.9	5	0.48
576	31 Bootis			5.0		14	35	39.26	81	18	55.1	2	0.56
577	c¹ Centauri			5.0	3	14	36	11.90	124	38	48.2	3	0.49
578	c2 Centauri	•••		6.0	1	14	37	30.63	124	40	24.7	1	0.53
<b>57</b> 9	34 Bootis			4.9		14	38	3.59	62	57	9.5	3	0.47
580	35 Bootis o			4.8		14	39	32.80	72	31	4.8	2	0.21
581	36 Bootis ∈ (Min	rac)		2.6		14	39	39.59	62	24	38.0	4	0.44
582				5.0	1	14	40	17:01	116	6	39.7	1	0.47
583	56 Hydræ		••.	5.7	<b></b>	14	40	37· <b>3</b> 1	115	34	29.9	1	0.45
584	7 Libræ μ			5.4	<b> </b>	14	42	37.91	103	38	21.0	3	0.48
585	58 Hydræ	•••		5.0		14	43	7.52	117	27	3.2	1	0.52
586	o Lupi		•••	5·3	3	14	43	40.86	133	4	7.1	3	0.46
587	9 Libræ a²			3.0	١	14	44	7.85	105	32	0.5	7	0.46
588	37 Bootis ξ³2	2nd		4∙6		14	45	45.81	70	23	29.4	4	0.50
589	Taylor 6953			5.7	4	14	48	15.72	123	21	32.6	5	0.48
<b>5</b> 90	15 Libræ ξ²		•••	5.8		١			100	<b>54</b>	57.4	4	0.48
591	16 Libræ	; <b>#</b>		4.5		14	50	48.87	93	50	55.0	4	0.48
592	Radcliffe 3305			1	4	14			23			4	0.48
593	110 Virginis					1			87			3	0.44
594	π Lupi				3	14	56		136		,	5	0.50
595	20 Libræ		•••	1 00	١	14	56		114			5	0.48

[17.75]

er.	Star.		In Ri	ght Ascensi	on.	In F	Polar Distanc	<b>e.</b>	rity.
Number.	Star.		Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
			s	8	8	"	"	,,	
561	τº Lupi		+ 3.8265	+ 0.0442		+ 16.510	- 0.323		
562	52 Hydræ		+ 3.4991	+ 0.0251	- 0.004	+16.376	- 0.301	+ 0.04	1862
563	23 Bootis θ		+ 2 0695	- 0.0026	- 0.028	+16.376	- 0.181	+ 0.40	1867
564	•••		+ 3.1243	+ 0.0098		+ 16.344	- 0.271		
565	105 Virginis φ		- · <b>3</b> ·09 <b>5</b> ′1	+ .0.0087	- 0.010	+16.331	- 0.269	+ 0.00	1865
560	σ Lupi	•	+ 4.0082	+ 0.0538		+ 16.203	- 0.351		
567	Taylor 6786		+ 4:2554	+ 0.0706		+ 16.101	- 0.376		
568	25 Bootis ρ		+ 2:5946	- 0.0015	- 0.000	+16.091	- 0.233	- 0.13	1869
569	27 Bootis γ		+ 2.4275	- 0.0027	- 0.011	+ 16.059	- 0.219	0.15	1871
570	5 Ursto Minoris		- 0.2092	+ 0.1207	+ 0.001	+16.026	+ 0.013	- 0.03	1873
571	28 Bootis σ		-j. 2·5989	- 0.0012	+ 0.014	+ 15.944	- 0.237	- 0.13	1872
572	ρ Lupi	٠	+ 4 0032	+ 0.0514		+ 15:926	- 0.361		
573	l Contauri		+ 3.7069	+ 0.0330		+ 15.674	- 0.344		
574	29 Bootis π		+ 2.8174	+ 0.0024	- 0.001	+ 15.640	- 0.264	+ 0.01	1875
575	30 Bootis 🕻		+ 2.8593	+ 0.0033	+ 0.002	+ 15.622	- 0.268	+ 0.01	1876
576	31 Bootis	٠	+ 2.9440	+ 0.0051	- 0.000	+ 15:605	- 0.277	+ 0.01	1877
577	$c^1$ Centauri		+ 3.6543	+ 0.0302	- 0.006	+ 15.575	- 0.342	+ 0.18	Stone
578	c² Centauri		+ 3.6590	+ 0.0300		+15.502	- 0.345		
579	34 Bootis		+ 2.6379	0.0000	- 0.001	+15.471	- 0.252	+ 0.01	1883
580	35 Bootis o	••.	+ 2.8023	+ 0.0024	- 0.002	+ 15:388	- 0.269	+ 0.02	1888
581	36 Bootis €	•••	+ 2.6240	- 0.0001	- 0.004	+ 15:381	- 0.252	- 0.00	1890
582			+ 3:4941	+ 0.0224	•••	+ 15.346	- 0.335		
583	56 Hydræ	••.	+ 3.4849	+ 0.0220	- 0.003	+ 15:328	- 0.334	+ 0.03	1886
584	7 Libra $\mu$		3.2836	+ 0.0145	- 0.007	+ 15.213	- 0.318	+ 0.03	1891
585	58 Hydra		+ 3.5250	+ 0.0233	- 0.020	+ 15:186	- 0.342	+ 0.06	1892
586	o Lupi		+ 3.8908	+ 0.0102		+ 15:154	- 0.378		
587	9 Libræ 👊		+ 3:3162	+ 0.0154	- 0.009	+ 15.127	- 0.324	+ 0.07	1894
588	37 Bootis ξ²-2nd	٠	+ 2.7571	+ 0.0021	+ 0.009	+ 15.034	- 0.272	+ 0.10	1898
589	Taylor 6953		+ 3.6619	+ 0.0282		+ 14.888	- 0.363		
590	15 Libræ ξ <sup>2</sup>		+ 3.2166	+ 0.0130	- 0.002	+ 14:776	- 0.326	- 0.01	1903
591	16 Libræ		+ 3.1333	+ 0.0099	- 0.006	+ 14.738	- 0.316	+ 0.16	1905
592	Radeliffe 3305		+ 0.9480	+ 0.0282		+ 14:447	- 0.102		
593	110 Virginis		+ 3.0304	+ 0.0075	- 0·005	+ 14:381	- 0.314	- 0.01	1915
594	π Lupi		+ 4:0570	+ 0.0451	- 0.009	+ 14:375	- 0.418	+ 0.04	Stone
595	20 Libræ		+ 3.5032	+ 0.0207		+ 14:369	- 0.362	+ 0.06	Stone

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Mean Positions of Stars for 1878, January 1st.

Number.	Star.			Magnitude.	Estimations.	Righ	Me t As		sion.		Mean r Dista		Observations.	Fraction of Year.
<b>5</b> 96	Radcliffe 3325			5.2	1	h. 14	m. 58		s. 12.	°6 %	. <i>'</i> <b>5</b> 9	" 17·7	1	0.52
597	40.70 11			4.5		14	59		3.12	62	34	32.4	5	0.43
598	43 Bootis $\psi$ 44 Bootis $i$			4.9		14	59		15·93	41	5 <del>2</del>	6.7	1	0.44
599	m 1 5050		1	6.1	2	15	2		1.02	144	52	46.8	2	0.52
600	<del>-</del> • • .			4.9	2	15	3		27.56	138	16	19.1	2	0.49
601	R. P. L. 111.			7.0		15	4	,	7.51	5	34	37.8	1	0.53
602				5.2	3	15	4		38.02	134	2	16.9	3	0.47
603				5.3	1	15	7	,	58.73	148	20	37:3	1	0.23
604	48 Bootis x			5.3	1	15	ę	)	23:31	60	22	54.0	2	0.45
605	μ Lupi—1st.	•••		4.8	1	15	10	)	3.25	137	25	26.7	1	0.52
606	2 Lupi δ			4:7		15	10	)	24.54	119	41	55·0	2	0.45
607	27 Libræ ß			2.7		15	10	0	26.52	98	55	52.5	12	0.47
608	49 Bootis δ-1st.			3.2		15	10	0	34.86	56	13	44.3	2	0.48
609	S Libræ, Var. 5	•••		9.8	3	15	1	4	23.80	109	56	48.0	3	0.23
610	φ <sup>2</sup> Lupi	•••		5.0	2	15	1	5	21.59	126	25	9.6	3	0.49
611	11 Ursæ Minoris	•••		5·1	1	15	5 1	7	12.14	17	43	59.9	2	0.23
612	R. P. L. 114	•••		6.9		. 18	5 1	7	12.34	2	18	4.0	6	0.33
613	1	•••		4.4		. 18	5 1	.9	52.99	52	11	37.7	3	0.47
614	13 Ursæ Minoris	•		3.2	1	.   18	5 2	03	55.79	17	43	53.4	1	0.23
615	3 Coronæ Boreal	is 8	•••	3.8	-	. 1	5 2	22	47.98	60	28	21.2	5	0.46
616	e Trianguli Aust	ralis		5.0	5	1	5 9	25	34.82	155	54	16.0	5	0.51
617	В. Н. 952			5.7	3	1	5 2	27	51.32	98	46	17.1	3	0.49
618	4 Coronæ Borea	lis θ		4.3		. 1	5	28	0.78	58	13	41.2	4	0.49
619	5 Cor. Bor. α (A	lpheta)		2.4		.   1	5	29	31.42	62	52	23.8	9	0.51
620	40 Libræ	•••		3.9		1	5	31	9.85	119	22	29.3	3	0.49
621	3 Lupi ψ¹			5.9	1	1 1	.5	32	1.31	124	4 0	42.3	1	0.52
622		•••		5.8	1:			32	48.77	134		21.7	1	0.23
628	1 *	•••		5.6				34	42.76	12			1	
624	I .		2nd.	5.2	- 1	1		34	47.27	5			2	
625	15 Ursæ Minori	is θ		5.3			L5	35	3.95	1	2 14	41.5	2	0.23
626	21 Serpentis 1	•••		4.6		:	15	36	6.28	6	9 56	8.5	3	0.49
627	44 Libræ η			5.2	.   .		15	37	12.84	10	5 16	56·1	1	0.44
628	8 Coronæ Bores	lis $\gamma$		4.2	:   .		15	37	37.27	6	3 18	3 59·2	2	0.47
629	24 Serpentis a	•••		2.7	'   .		15	38	15.54	8	33 1	1 20·2	12	0.52
630	27 Serpentis λ	•••		4.4			15	40	31.42	8	2 1	5 46.7	2	0.49

ber.	O.	In R	ight Ascensi	on.	In P	olar Distanc	e.	rity.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
596	Radcliffe 3325	4.5957 - 2.8700	0°.7034 + 0-2963	s 	# + 14·261	".465" + 0:288	"	
597	43 Bootis ψ	+ 2.5834	+ 0.0010	- 0·015	+ 14.229	- 0.271	 + 0·01	1923
598	44.15	+ 2.0185	+ 0.0015	- 0.043	+ 14:196	- 0·214	- 0·02	1923
599	m 1 Foro	+ 4:4291	+ 0.0638		+ 14:045	- 0.467		
600	Taylor 7053 к Lupi—1st	+ 4.1482	+ 0.0476	- 0.020	+ 13.965	- 0.440	+ 0.06	Stone
601	R.P.L. 111	<b>-</b> 6.7815	+ 1.1625		+ 13.923	+ 0.706		
602	e Lupi	+ 4.0047	+ 0.0402		+ 13.891	- 0.428		<b> </b>
603	β Circini	+ 4.6579	+ 0.0748		+ 13.678	- 0.502		
604	48 Bootis x	+ 2.5132	+ 0.0013	- 0.008	+ 13.588	- 0.275	0.03	1935
605	μ Lupi1st	+ 4 1453	+ 0.0.152	- 0.015	+ 13:545	- 0.451	+ 0.08	Ston
606	2 Lupi δ	+ 3.0354	+ 0.0239		+ 13.522	- 0.397		
607	27 Libræ <b>8</b>	+ 3.2275	+ 0.0117	- 0.008	+ 13.519	- 0.353	+ 0.02	1934
608	49 Bootis δ-1st	+ 2.4115	+ 0.0010	+ 0.007	+ 13.513	- 0.212	+ 0.11	1930
609	S Libra, Var 5	+ 3.4362	+ 0.0170		+ 13.263	- 0.382		
610	φ² Lupi	+ 3.8149	+ 0.0295		+ 13.198	- 0.424		
611	11 Ursæ Minoris	- 0.0974	+ 0.0746	+ 0.008	+ 13.077	+ 0.005	- 0.00	195
612	R.P.L 114	<b>- 22·15</b> 14	+ 7.4383		+ 13.077	+ 2.443		
613	51 Bootis μ	+ 2.2780	+ 0.0014	- 0.014	+ 12.898	- 0.260	- 0.08	195
614	13 Ursω Minoris γ	- 0.1418	+ 0.0750	+ 0.004	+ 12.828	+ 0.010	~ 0.02	196
615	3 Coronæ Borealis 3	+ 2.4863	+ 0.0019	- 0.013	+12.702	- 0.286	- 0.07	195
616	e Trianguli Australis	+ 5.4084	+ 0.1122	- 0·002	+ 12.513	- 0.621	+ 0.10	Stor
617	В.Н. 952	+ 3.2347	+ 0.0113		+ 12:357	- 0.376		
618	4 Corono Borcalis 0	+ 2.4198	+ 0.0019	- 0.006	+ 12:346	- 0.283	+ 0.02	196
619	5 Coronæ Borealis a	+ 2.5298	+ 0.0023	+ 0.000	+12.241	- 0.297	+ 0.00	197
620	40 Libræ	+ 3.6716	d- 0.0550		+ 12 127	- 0.431		
621	3 Lupi ψ¹	+ 3.7928	+ 0.0257		+ 12.069	- 0.446		
622	g Lupi	+ 4.1154	+ 0.0370	- 0.018	+ 12.012	- 0.485	+ 0.24	Ston
623	h Lupi	+ 3.8848	+ 0.0283		+ 11.878	- 0.460		
624	7 Cor. Bor. ζ-2nd	+ 2.2594	+ 0.0021		+ 11.874	- 0.270		
625	15 Ursιο Minoris θ	- 1.8966	+ 0.1924	- 0.040	+ 11.840	- 0.219	- 0.01	200
626	21 Serpentis	+ 2.6771	+ 0.0035	0.007	+ 11.780	- 0.321	+ 0.03	198
627	44 Libræ η		+ 0.0136	- 0.002	+ 11.702	- 0.404	+ 0.06	198
628	8 Coronæ Borealis γ	+ 2.5259	+ 0.0026	- 0.008	+ 11.673	- 0.304	- 0.03	199
629	24 Serpentis a	+ 2.9422	+ 0.0062	+ 0.008	+ 11.627	- 0.354	- 0.06	199
630	27 Serpentis λ	+ 2.9233	+ 0.0060	- 0.016	+ 11.465	- 0.355	+ 0.06	199

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Mean Positions of Stars for 1878, January 1st.

Number	Star.		Magnitude.	Estimations.	Righ	Meai t Asc	n ension.	Pola	Mean r Dist		Observations.	Fraction of Year.
co1	of G		4.0		h.	m.	8.	0	1	".s		0.40
631	35 Serpentis κ	***	4.2	::	15	43	14.85	71	28	48-9	3	0.48
632	κ Trianguli Australis		5.0	1	15	43	27.69	158	.14	14.1	1	0.52
633	1 Scorpii b		4.8		15	43	38.60	115	22	43.4	4	0.50
634 635	10 Corcuæ Borealis δ	•••	4.6		15	44	28.66	63	33	24.8	4	0.20
099	38 Serpentis ρ		. 4·8		15	45	<b>54·40</b>	68	39	14.7	3	0.21
636	R. P. L. 115		7.0		15	46	14 74	4	46	28.9	2	0.75
637	11 Coronæ Borealis κ		4.7		15	46	38.06	53	57	45.4	1	0.23
638	ξ Lupi—lst		4.5		15	49	5.75	123	36	26.5	3	0.48
639	ξ Lupi-2nd		6.4	3	15	49	6:25	123	36	18.8	4	0.48
640	η Lupi—1st		4.3	4	15	52	2.32	128	. 2	46.5	4	0.48
641	13 Coronæ Borealis ε		4·1		15	52	32.01	62	<b>4</b> 6	3.8	5	0.20
642	Taylor 7437		5.4	3	15	55	17.62	128	15	37.1	3	0.49
643	44 Serpentis π		5.0	<b></b>	15	57	2.40	66	51	22.7	1	0.45
644	δ Normæ	•••	5.0		15	57	52.47	134	50	25.0	2	0.53
645	8 Scorpii 8 1	•••	2.9		15	58	20.68	109	28	9.5	9	0.23
646	10 Scorpii ω <sup>2</sup>		4.6		16	0	15.11	110	32	15.5	5	0.49
647	m Scorpii		5.8		16	0	41.67	115	59	52.8	1	0.53
648	R. P. L. 116		7.0		16	1	50.21	4	21	1.6	5	0.07
649	ζ Normæ		5.8	1	16	3	40.42	145	13	19.7	1	0.52
650	13 Scorpii c <sup>2</sup>	•••	4.7		16	4	47.47	117	36	29.5	2	0.45
651	15 Scorpii ψ		4.8		16	5	19.84	99	44	47.3	2	0.48
652	Radcliffe 3511		5-0	<b> </b>	16	5	59-56	21	52	4.5	1	0.53
653	1 Ophiuchi δ		2.8	<b> </b>	16	7	57·10	93	22	43.2	15	0.20
654	18 Scorpii		5.7		16	8	59.39	98	2	42.3	1	0.50
655	λ Normæ		5.2	3	16	10	48.18	132	22	24.6	3	0.47
656	3 Ophiuchi v		4.6		16	21	12.27	98	5	48.4	2	0.59
657	21 Scorpii a (Antares)	•••	1.1		16	21	55.76	116	9	34.2	10	0.52
658	W. B. E. 634		9.0	3	16	34	31.04	103	9	17·O	3	0.47
659	42 Herculis	•••	5.2		16	35	26.19	40	49	53.9	1	0.59
660	40 Herculis (	•••	3.1		16	36	41.20	58	10	30.8	4	0.49
661	μ¹ Scorpii	•••	3.0		16	43	36-39	127	50	9.8	3	0.45
662	Taylor 7802	•••	1	2	16	45	28.08	131		5.2	2	0.47
663	Taylor 7803	•:	7.0	2	16	45	29-98	131	35	12.6	2	0.46
664	27 Ophiuchi κ	•••	3.4		16	51	53.62	80		1.1	4.	0.58
665	22 Ursæ Minoris $\epsilon$	•••	4.5		16	<b>5</b> 8	32.03	7	45	<b>52·7</b>	4	0.21

636.—Carrington 2380.

648.—Carrington 2423.

658.—Comparison star for Sappho in 1878.

				•				
ber.	Star.	In R	ght Ascension	on.	In F	olar Distanc	е.	Authority.
Number.	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Auth
		8	8	ε	"	"	"	
631	35 Serpentis $\kappa$	+ 2.7018	+ 0.0039	- 0.004	+ 11.268	- 0.331	+ 0.08	2002
632	κ Trianguli Australis	+ 5.8442	+ 0.1245	<b>– 0</b> ·008	+ 11.254	- 0.709	+ 0.04	Stone
633	1 Scorpii b	+ 3.5974	+ 0.0184	- 0.006	+ 11.240	- 0.439	+ 0.04	2000
634	10 Coronæ Borealis δ.	+ 2.5203	+ 0.0028	<b> 0.008</b>	+ 11.180	- 0.310	+ 0.08	2010
635	38 Serpentis p	+ 2.6367	+ 0.0032	- 0.002	+ 11.075	- 0.325	- 0.02	2013
636	R.P.L. 115	- 10.2841	+ 1.5300		+ 11.051	+ 1.246	•••	
637	11 Coronæ Borealis κ.	+ 2.2597	+ 0.0025	- 0.003	+ 11.023	- 0.280	+0.36	2018
638	ξ Lupi—1st	0.0107	+ 0.0235	•••	+ 10.842	- 0.473	•••	
639	ξ Lupi-2nd		+ 0.0235	•••	+10.841	- 0.473	•••	
640	η Lupi—1st	+ 3.9596	+ 0.0269	- 0.011	+ 10.624	- 0.494	+ 0.02	Stone
641	13 Coronæ Borealis e	. + 2.4879	+ 0.0030	<b>–</b> 0.007	+10.587	- 0.313	+ 0.06	2029
642	Taylor 7437	2.0749	+ 0.0267		+ 10.382	- 0.500	•••	
643	44 Serpentis π	0.7011	+ 0.0034	0.000	+ 10.251	- 0.328	- 0·04	2038
644	δ Normæ	1	+ 0.0334	<b></b>	+ 10.188	- 0.533	<b>—</b> 0·02	Stone
645	8 Scorpii <b>6</b> <sup>1</sup>	0.4700	+ 0.0142	- 0.003	+ 10.152	- 0.441	+ 0.03	2034
646	10 Scorpii ω <sup>2</sup>	+ 3.5062	+ 0.0145	+ 0.001	+10.008	- 0.447	+ 0.02	2040
647	•	0.0070	+ 0.0172		+ 9.974	- 0.464		
648	1	10.0100	+ 1.7473		+ 9.888	+ 1.546		
649		4.7547	+ 0.0506		+ 9.748	- 0.610		
650	_	0.0040	+ 0.0176	+ 0.000	+ 9.662	- 0.475	+0.02	2052
651	. 15 Scorpii ψ	+ 3.2737	+ 0.0100	- 0.004	+ 9.620	- 0.423	+ 0.01	2056
652		0.7450	+ 0.0408		+ 9.569	- 0.022		
653		1	+ 0.0081	- 0.005	+ 9.419	- 0.408	+ 0.14	2065
654	_	1 0.0005	+ 0.0094	+ 0.011	+ 9.338	- 0.422	+ 0.51	2067
655	λ Normæ	+ 4:1560	+ 0.0280		+ 9.198	- 0.542		
656	3 Ophiuchi v	+ 3.2451	+ 0.0087		+ 8.380	- 0.434		
657		+ 3.6698	+ 0.0120	- 0.002	+ 8:322	- 0.491	+ 0.03	2091
658	-	+ 3.36	+ 0.0092		+ 7:308	- 0.459		
659	) 40 TT 11	+ 1.6293	l l		+ 7.233	- 0.225	- 0.02	2128
660		+ 2.2968	1		+ 7.131	- 0.316	- 0.41	2127
66	1 μ¹ Scorpii	+ 4:0534	+ 0.0180	0.007	+ 6.561	- 0.562	0.00	Stone
669		+ 4.1971		1	+ 6.408	- 0.283		
66		+ 4.1965			+ 6.405	- 0.582		
664		+ 2.8568				- 0.402	- 0.02	2156
66	-		11.			+ 0.895	+ 0.00	2201
11 50	-			1		1	}	

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Righ	Mea t Asc	n ension.	Pola	Mean r Dist		Observations.	Fraction of Year.	
222	- m				h.	m.	8.	•	,	"			İ
666	Lacaille 7107	• • •	5.2	1	17	0	50.18	157	2	13.9	1	0.62	5.07
667	36 Ophiuchi A—1st.	•••	4.7		17	7	50.59	116	265	19.3	2	0.59	[25]
668	64 Herculis α, Var. 1	•••	Var.		17	9	5·10	75	28	6.0	3	0.60	
669	42 Ophiuchi θ	•••	3.4		17	14	31.07	114	52	32.7	2	0.57	
670	γ Aræ	•••	3.0	2	17	. 15	7.67	146	15	33.6	2	0.62	
671	β Aræ		3.0	2	17	15	9.48	145	24	40.0	2	0.63	
672	κ¹ Aræ		5.0	1	17	16	29.53	140	31	9.6	3	0.61	
673	51 Ophiuchi c <sup>2</sup>		4.9		17	23	58.39	113	51	58·1	5	0.59	
674	55 Ophiuchi α		2.2		17	29	16.26	77	20	55.7	4	0.63	
675	85 Herculis		3.9		17	36	1.16	43	55	38.5	1	0.66	
						_							
676	Taylor 8199		6.2	3	17	<b>3</b> 6	42.52	65	21	53·3	4	0.62	[[
677	Taylor 8227		5.2	3	17	41	14.83	121	<b>3</b> 9	31.1	3	0.64	ii
678	86 Herculis $\mu$	•••	3∙5		17	41	41.04	62	12	22.6	7	0.62	1
679	62 Ophiuchi γ	•••	3.8		17	41	46.50	87	14	42.0	2	0.66	
680	Lacaille 7494	•••	<b>7</b> ·0	2	17	48	17.45	122	27	7.4	2	0.60	<u>ll</u>
681	Lacaille 7506	•••	7.2	1	17	48	47.43	116	44	54·3	2	0.62	
682	Lacaille 7502	•••	7.0	1	17	48	50.44	122	40	1.5	2	0.62	
683	Taylor 8300—1st.	•••	5.1	4	17	51	15.27	120	14	16.6	4	0.65	11
684	32 Draconis &		3.9		17	51	25.15	33	6	27.2	2	0.66	
685	91 Herculis θ	•••	4.0		17	52	3-97	52	43	54.6	2	0.68	
686	El Comontia C		4.5			<b>.</b>					1		H
687	51 Serpentis $\zeta$ 66 Ophiuchi	••,	4.5		17	54	2.47	93	40	50.3	1	0.67	
688	1	•••	4.8		17	54	12:14	85	37	19.7	1	0.66	3
689		•••	5.4		17	56	26.33	98	10	40.1	1	0.66	11
690	96 Herculis 70 Ophiuchi—1st.	•••	5.1		17	57	10-13	69	9	55.4	2	0.66	
000	70 Opinioni—Isu.	•••	4.1		17	59	17-42	87	28	11.2	2	0.69	11
691	€ Telescopii	•••	4.5	3	18	2	10.33	135	58	23.2	4	0.62	1
692	Lacaille 7561	•••	5.5	1	18	2	32.04	153	42	45.8	1	0.66	1
693	103 Herculis o		4.0		18	2	46.92	61	15	10.9	3	0.66	]]
694	Lacaille 7577	•••	5.0	3	18	4	5.49	153	5	2.7	3	0.64	11
695	13 Sagittarii μ¹	•••	4.1		18	6	27.89	111	5	18.3	3	0.62	
696			0.0		10		40.25						
697	104 Herculis A	•••	1	4	18	6	40.67	123	10	19.7	4	0.67	11
698	g Sagittarii	•••			18	7	18.64	58	37	24.9	1	0.66	
699	g Sagittarii 23 Ursæ Minoris δ	•••	1.00		18	10	24-92	117	5	3.9	3	0.65	
700		•••	7.0		18	11	41.45	3	23	30.9	7	0.22	
100		•••	7.0	3	18	12	35.28	127	32	12.7	3	0.66	

696.—Comparison star for Thyra in 1878. 699.—R. P. L. 125. 700.—Comparison star for Baucis in 1878.

ber.	<b>Q</b> L.		In Ri	ght	Ascensi	m.			In P	olar :	Distance	е.	Authority.
Number.	Star.		nnual cession.		cular riation.		oper otion.	An	nual ession.		cular iation.	Proper Motion.	Autho
			s		s		ε		,,		,,	"	
666	Lacaille 7107	+	6.1228	+	0.0577			+	5.121	-	0.865		
667	36 Ophiuchi A-1st	+	3.7199	+	0.0093	_	0.039	+	4.524	-	0.230	+ 1.14	2176
668	64 Herculis a	+	2.7343	+	0.0035	_	0.002	+	4.418	_	0.391	<b></b> 0.03	2183
669	42 Ophiuchi θ	+	3.6799	+	0.0080	_	0.002	+	3.954	_	0.528	+ 0.04	2189
670	γ Aræ	1	5.0356	+	0.0235	_	0.004	+	3.901	-	0.722	+ 0.01	Stone
		1.			0.000#						0.713	+ 0.03	Stone
671	β Aræ		4.9740	+	0.0225	+	0.002	+	3.899	_		-	Stone
672	κ¹ Aræ		4.6661	+	0.0177		•••	+	3.784	_	0.670	+0.00	
673	51 Ophiuchi c <sup>2</sup> .	1	3 6565	+	0.0065	-	0.002	+	3.139	-	0.528	+ 0.01	2209
674	55 Ophiuchi α .	+	2.7749	+	0.0030	+	0.007	+	2.681	-	0.402	+ 0.22	2218
675	85 Herculis	+	1.6919	+	0.0032	_	0.000	+	2.095	-	0.246	- 0.01	2233
676	Taylor 8199	.   +	2.4623	+	0.0027			+	2.030	_	0.358		<b> </b>
677	Taylor 8227		3.8939	+	0.0050	_	0.001	;	1.639	_	0.567	- 0.04	Stone
678	86 Herculis $\mu$	1 :	2.3698	1	0.0025	_	0.024	;	1.601	_	0.346	+ 0.75	2237
679			3.0081	1	0.0028		0.004		1.593	۱_	0.438	+ 0.06	2236
680		Ι.		1	0.0037	_		;	1.025	_	0.571		
000	Lacamo 7454	"  +	0 0210	_	0 0002		•••	"	1 020				l '''
681	Lacaille 7506 .	+	3.7452	1	0.0033		•••	+	0.981	-	0.546		
682	Lacaille 7502	+	3.9285	+	0.0036		•••	+	0.976	-	0.572	•••	
683	Taylor 8300—1st	.  +	3.8510	+	0.0034	+	0.003	+	0.765	-	0.261	+ 0.02	Stone
684	32 Draconis §	+	1.0234	+	0.0038	+	0.012	+	0.751	-	0.149	- 0.08	2263
685	91 Herculis θ	.  +	2.0556	+	0.0025	-	0.002	+	0.694	-	0.300	- 0.02	2256
euc	ET G	1.	3.1583	١.	0.0023	+	0.008	+	0.523	_	0.460	+ 0.04	2254
686	1	·  †		+	0.0023				0.507		0.433	- 0.02	2257
687	1	·  +		+		-		+	0.312		0.476	+ 0.01	2265
688	00.77	·		+	0.0021	+		1 '		-	0.368	+ 0.01	2269
689		·  +		+		-		1 .	0.248	-		+1.11	2271
690	70 Ophiuchi—1st	-  +	3.0132	+	0.0019	+	0.013	+	0.062	-	0.439	7111	2211
691	· Γelescopii	. +	4.4553	1+	0.0007			_	0.191	_	0.650		
692	T 111 FE01	. +		_	0.0011			-	0.221	] _	0.843		l
698	100 17	+		1+	0.0021		0.001	_	0.243	_	0.341	- 0.00	2281
694		+		1				_	0.358	_	0.832		
695			- 3.5876	1+		_ ا	0.001	.   _	0.566	_	0.523	- 0.00	2284
				}									
696			- 3.9458	+	0.0003		•••	-	0.584	-	0.575		
697	7 104 Herculis A		- 2.2574	+			- 0.002	- 1	0.640	-	0.329		2291
698	g Sagittarii	⊣	- 3.7552	+	- 0.0001	-1	•••	-	0.911	-	- 0.547	1	
699	23 Ursæ Minoris δ	-	- 19·4531	-	0.3499	1	- 0·026	i  -	1.051	+		1	2395
700	o	⊣	<b>4</b> ·0980	-	- 0.0013	:		1 -	1.101	-	- 0.597		

Mean Positions of Stars for 1878, January 1st.

Number.	Star.		Magnitude.	Estimations.	Right	Mea Asc	n ension.		Mean Dista	ance.	Observations.	Fraction of Year.		
		T	. [		h.	m.	8.	0	,	"				
701	Radcliffe 3885		5.0	1	18	13	14.45	49	6	35.4	1	0.66		
702	105 Herculis		5.2		18	14	9.47	65	36	10.8	3	0.67		
703	1 Lyræ к		4.4		18	15	35.03	54	0	22.2	2	0.66		
704	24 Ursæ Minoris	•••	6.1	0	18	15	57.77	3	0	44.7	1	0.15		
705	Radcliffe 3905		50	1	18	18	25.35	40	56	20.3	1	0.66		
706			8:2	2	18	19	9.50	121	26	25.7	2	0.62	•	
707	ν Pavonis		5.0	3	18	19	58.57	152	21	7.9	3	0.63		
708	39 Draconis b		4.8		18	22	7:61	31	16	9.1	3	0.66		
709	v¹ Sagittarii		5.5	5	18	23	4.60	123	4	2.0	5	0.66		
710	v² Sagittarii		5.2	1	18	25	57:38	123	· 6	16.1	1	0.66		
		1							15	ş	_		J98 19	358
711	1 Aquilæ	•••	40		18	28	33.99	98	20	38.6	5	0.67	198 19	32 -
712	Radcliffe 3983—2nd. 3 Lyræ a (Vega)	•••	50	3	18	31	10.65	37 51	44	31.9	3	0·65 0·63		
714	0.4	-	0·2 4·8		18 18	32 35	48·42 35·70	99	19 10	40·8 1·0	5	0.67		
715	0.70	***	5.0	1	18	36	37·75	155	12	0.0	1	0.62		
'	e Pavonis	***	• 0	-	10	50	31 10	150	14	00	^	002		
716	3 Aquilæ		5.1		18	36	52.67	98	23	35.4	1	0.66		
717	46 Draconis c		5.3		18	40	16.53	34	34	<b>57</b> ·2	1	0.67		
718	5 Lyræ €²—1st	•••	5.3		18	<b>4</b> 0	20.02	50	30	49.2	1	0.66		
719	110 Herculis		4.2		18	40	24.60	69	34	7.5	4	0.65		
720	7 Lyræ ζ²		5.9		18	40	36.24	52	31	<b>54·2</b>	1	0.66		
721	6 Aquilæ		4.4		18	40	42.16	94	52	3 <b>5</b> ·5	2	0.66		
722	κ Telescopii		5·5	1	18	42	58.26	142	14	38.0	1	0.62	1	
723	Radeliffe 4070		5.0	1	18	43	59.60	37	8	41.5	1	0.71		
724	κ Pavonis, Var		5.0	3	18	44	21.64	157	22	58· <b>1</b>	3	0.62		
725	10 Lyræ β, Var. 1		Var.	<b></b>	18	45	34.51	56	46	39.6	9	0.65		
726	35 Sagittarii $\nu^2$		<b>5.</b> 0		,,,		44.40	770	40		_	0.00		
727	<b>D</b>	•••	5·2 5·5	1	18			112 150	49	16.3	1	0.66 0.66		
728		•••	50	1	18			37	21 10	30·0 52·6	1	0.72		
729		•••	4.6		18			30		36·0	2	0.72		
730		•••	4.6		1			67			1	0.67	35.93	
]{				"			-5.20	"	00	204	1 -	"		
731	-	•••	1		1			85			1	1		
732		•••	1		1		-	96			4	ì		
733	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•••	1		1			3			1	1		
734	1	•••	5.6		1 .			32			2	1		
735	12 Aquilæ		4.0	•••	.   18	8 5	5 9-99	95	54	31.1	5	0.69		

706.—Comparison star for Diana in 1864.

733.—Carrington 2882.

Observed with the Madras Meridian Circle in that Year.

Number.	Star.	In Ri	ght Ascensi	on.	In P	olar Distanc	e.	rity.
Nam	Star.	Annual Precession.	Secular Variation.	Proper Motion.	Annual Precession.	Secular Variation.	Proper Motion.	Authority.
-01	n 1 um 2005	8	8	s	"	"	"	
701	Radcliffe 3885	+ 1.9165	+ 0.0020	•••	- 1.158	- 0.279	•••	
702	105 Herculis	+ 2.4671	+ 0.0019	+ 0.001	- 1·238	- 0.358	<b>- 0.00</b>	2300
703	1 Lyræ κ	+ 2.1034	+ 0.0020	- 0.002	- 1.362	- 0.298	- 0.04	2305
704	24 Ursæ Minoris	- 22.2694	- 0.6000	+ 0.067	— 1·396	+ 3.241	+ 0.02	2417
705	Radcliffe 3905	+ 1.5359	+ 0.0016		- 1.611	- 0.222		
706		+ 3.8867	- 0.0019	•••	- 1·675	- 0.564	,	]
707	ν Pavonis	+ 5.6147	- 0.0133	•••	<b>–</b> 1·746	- 0.815	***	
708	39 Draconis b	+ 0.8810	- 0.0004	0.002	- 1.934	- 0.127	- 0.05	2328
709	υ¹ Sagittarii	+ 3.9383	- 0.0028	•••	- 2.016	- 0.571	•••	
710	υ² Sagittarii	+ 3.9383	- 0·0034	•••	- 2:266	- 0.570	•••	
711	1 Aquilæ	+ 3.2668	- 0.0004	~ 0·003	- 2·493	- 0.472	+ 0.31	2330
712	Radcliffe 3983—2nd	+ 1.3610	+ 0.0003		<b>– 2</b> ·720	- 0.196		
713	3 Lyra a	+ 2.0132	+ 0.0016	+ 0.017	- 2.861	- 0.290	- 0.30	2341
714	2 Aquilæ	+ 3.2854	- 0.0010	- 0.000	- 3.102	- 0.473	- 0.01	2342
715	θ Pavonis	+ 5.9289	- 0.0305	- 0.007	- 3·192	- 0.853	+ 0.04	Stone
		, 00200			0.102	0 000	1 002	
716	3 Aquilæ	+ 3.2670	- 0.0010	<b>-</b> 0.000	<b>—</b> 3·213	- 0.469	- 0.03	2343
717	46 Draconis c	+ 1.1630	- 0.0013	- 0.004	<b>— 3.</b> 506	- 0.165	0.02	2360
718	5 Lyræ ε²—1st	+ 1.9877	+ 0.0014	- 0.001	- 3·51 <del>5</del>	- 0.283	- 0.07	2356
719	110 Herculis	+ 2.5819	+ 0.0012	- 0.003	- 3.518	- 0.369	+ 0.35	2351
720	7 Lyræ ζ <sup>2</sup>	+ 2.0636	+ 0.0014	+ 0.001	- 3.534	- 0.294	÷ 0.03	2358
721	6 Aquilæ	+ 3.1846	  - 0.0009	- 0.002	- 3.543	- 0.455	+ 0.02	2350
722	κ Telescopii	+ 4.7683	- 0.0162		- 3·738	- 0.680	-	
723	Radcliffe 4070	+ 1.3399	- 0.0008		- 3.826	- 0.190	•••	
724	κ Pavonis, Var	+ 6.2214	- 0.0437	- 0.011	- 3·857	- 0.889	- 0·10	Stone
725	10 Lyra β, Var. 1	+ 2.2139	+ 0.0012	- 0.001	- 3.961	- 0.315	- 0.02	2369
726	25 Conittonii2	+ 3.6227	- 0.0045	1 0-00	4:145	0.515	1.0-07	2366
727	35 Sagittarii ν <sup>2</sup> ω Pavonis		- 0.0045 - 0.0287	+ 0.002	- 4:147	- 0.515	+0.01	
727		+ 5:3709	- 0.0011		4.149	- 0.765	•••	
728 729		+ 1.3496	- 0·0011 - 0·0045	+ 0.009	4.242	- 0.190	 0.09	2386
	47 Draconis o	+ 0.8780			- 4·288	- 0.123	- 0.02 - 0.01	1 11
730	113 Herculis	+ 2·5316	+ 0.0011	- 0.001	4·307	- 0.359	- 0.01	2378
731	63 Serpentis θ—1st		- 0.0005	+ 0.001	- 4:354	- 0.422	- 0.04	2376
732	9 Aquilæ	+ 3'2094	- 0.0017	+ 0.003	- 4:386	- 0.455	+ 0.03	2375
733	R. P. L. 131	18:4918	- 1.5174		— 4·730	+ 2.622	•••	
734	48 Draconis		- 0.0039	- 0.002	- 4·740	- 0.143	+ 0.06	2400
735	12 Aquilæ	+ 3.2066	- 0.0020	- 0.005	<b>- 4</b> ·781	- 0.452	+0.02	2391